

<222> (3176)

<223> n equals a,t,g, or c

<400> 123

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gccccactgt	tgatggggta	agaggatct	gtactgagaa	gttgcaccaga	gagggctctca	180
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aagagaaaac	agaatgtct	tgcccttgg	gaactgctaa	ccttagggcta	ctgttgattt	300
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tatgttata	gtgtcaattt	atgtgtcccc	ttacatatac	catgcaccc	atctttgtca	1740
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taagtcttag	agatcatttt	atatcatgac	aagtagagct	acctcattt	ttttatgtt	1860
tatataaaat	tccattgtat	agttatattca	ttatattaaat	aaaaacaacc	ctaatgtatgg	1920
atattttagat	tcttttaagt	tttggtttatt	tcttttaagt	tttggtttgg	gtataaaca	1980
taccacatag	aatgtttttt	gtgcataat	ctctttgttt	ttgagttata	ctgttaggata	2040
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atcttaatgt	caacttggcac	atgatatttt	gatcaagcca	ttttgacttg	acccaaaaagc	2940
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acactgttcc	tgaaattttat	taatttttttca	tccaaaccctg	tttgagtttgc	ggctcatatgt	3060
taggttcaag	actatcttgc	taaattttttac	tgaaaaacaa	agtaagacag	tactatgttt	3120
acctttaac	tttgataatgt	caaaccaggc	atgtttaat	acatcataga	aaagatttca	3180
agataattta	tagaagttaa	attatattgt	acagaaaata	attgtatgaa	aatcttact	3240
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caactacaaa ctctgaaaaa cggcttact gagatataat tgatataattt aagtgtacag	3660
tttgttaaat ttgcacata tttaaatgt ggactttggt aaatgttgc atagtttac	3720
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<210> 124

<211> 370

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (370)

<223> Xaa equals stop translation

<400> 124

Met Leu Gly Ala Phe Val Trp Pro Ser Leu Leu Leu Leu Ala Ala Ala			
1	5	10	15

Cys Ile Cys Leu Leu Thr Phe Ile Asn Cys Ala Tyr Val Lys Trp Gly		
20	25	30

Thr Leu Val Gln Asp Ile Phe Thr Tyr Ala Lys Val Leu Ala Leu Ile		
35	40	45

Ala Val Ile Val Ala Gly Ile Val Arg Leu Gly Gln Gly Ala Ser Thr		
50	55	60

His Phe Glu Asn Ser Phe Glu Gly Ser Ser Phe Ala Val Gly Asp Ile			
65	70	75	80

Ala Leu Ala Leu Tyr Ser Ala Leu Phe Ser Tyr Ser Gly Trp Asp Thr		
85	90	95

Leu Asn Tyr Val Thr Glu Glu Ile Lys Asn Pro Glu Arg Asn Leu Pro		
100	105	110

Leu Ser Ile Gly Ile Ser Met Pro Ile Val Thr Ile Ile Tyr Ile Leu		
115	120	125

Thr Asn Val Ala Tyr Tyr Thr Val Leu Asp Met Arg Asp Ile Leu Ala		
130	135	140

Ser Asp Ala Val Ala Val Thr Phe Ala Asp Gln Ile Phe Gly Ile Phe			
145	150	155	160

Asn Trp Ile Ile Pro Leu Ser Val Ala Leu Ser Cys Phe Gly Gly Leu		
165	170	175

Asn Ala Ser Ile Val Ala Ala Ser Arg Leu Phe Phe Val Gly Ser Arg		
180	185	190

Glu Gly His Leu Pro Asp Ala Ile Cys Met Ile His Val Glu Arg Phe	
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195

200

205

Thr Pro Val Pro Ser Leu Leu Phe Asn Gly Ile Met Ala Leu Ile Tyr
 210 215 220

Leu Cys Val Glu Asp Ile Phe Gln Leu Ile Asn Tyr Tyr Ser Phe Ser
 225 230 235 240

Tyr Trp Phe Phe Val Gly Leu Ser Ile Val Gly Gln Leu Tyr Leu Arg
 245 250 255

Trp Lys Glu Pro Asp Arg Pro Arg Pro Leu Lys Leu Ser Val Phe Phe
 260 265 270

Pro Ile Val Phe Cys Leu Cys Thr Ile Phe Leu Val Ala Val Pro Leu
 275 280 285

Tyr Ser Asp Thr Ile Asn Ser Leu Ile Gly Ile Ala Ile Ala Leu Ser
 290 295 300

Gly Leu Pro Phe Tyr Phe Leu Ile Ile Arg Val Pro Glu His Lys Arg
 305 310 315 320

Pro Leu Tyr Leu Arg Arg Ser Trp Gly Leu Pro Gln Gly Thr Ser Arg
 325 330 335

Ser Cys Val Cys Gln Leu Leu Gln Lys Trp Ile Trp Lys Met Glu Glu
 340 345 350

Arg Cys Pro Ser Asn Gly Ile Pro Ser Leu Thr Lys His His Leu Glu
 355 360 365

Ser Xaa
 370

<210> 125

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals stop translation

<400> 125

Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Val Leu Leu
 1 5 10 15

Thr Asp Arg Thr Leu Ser Cys Arg Ser Val Gly Val Pro Cys Asn Val
 20 25 30

Arg Cys Gln Cys Ala Pro Ala Gly Gly Cys Leu Pro Val Arg Leu Leu
 35 40 45

Ala Gly Gln Gly Ser Gly Thr His Leu Arg Arg Gln Ser Ala Arg Ser
 50 55 60

Gln Ile Ser Ser Cys Met Leu Gly Glu Pro Leu Leu Ser Ser Lys Leu
65 70 75 80

Ser Asp Arg Asp Ile Xaa
85

<210> 126

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals stop translation

<400> 126

Met Tyr Thr Lys Thr His Lys Phe Lys Phe Tyr Asn Phe Leu Ser Leu
1 5 10 15

Trp Ile Trp Lys Ile Phe Phe Leu Leu Phe Phe Ile Leu Ile Val Ala
20 25 30

Leu Ala Phe Pro Ile Pro Cys Leu Ser Ile Phe Xaa
35 40

<210> 127

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (303)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 127

Met Asn Thr Asp His Leu Arg Leu Thr Val Pro Asn Gly Ile Gly Ala
1 5 10 15

Leu Lys Leu Arg Glu Met Glu His Tyr Phe Ser Gln Gly Leu Ser Val
20 25 30

Gln Leu Phe Asn Asp Gly Ser Lys Gly Lys Leu Asn His Leu Cys Gly
35 40 45

Ala Asp Phe Val Lys Ser His Gln Lys Pro Pro Gln Gly Met Glu Ile
50 55 60

Lys Ser Asn Glu Arg Cys Cys Ser Phe Asp Gly Asp Ala Asp Arg Ile
65 70 75 80

Val Tyr Tyr Tyr His Asp Ala Asp Gly His Phe His Leu Ile Asp Gly
 85 90 95

Asp Lys Ile Ala Thr Leu Ile Ser Ser Phe Leu Lys Glu Leu Leu Val
 100 105 110

Glu Ile Gly Glu Ser Leu Asn Ile Gly Val Val Gln Thr Ala Tyr Ala
 115 120 125

Asn Gly Ser Ser Thr Arg Tyr Leu Glu Glu Val Met Lys Val Pro Val
 130 135 140

Tyr Cys Thr Lys Thr Gly Val Lys His Leu His His Lys Ala Gln Glu
 145 150 155 160

Phe Asp Ile Gly Val Tyr Phe Glu Ala Asn Gly His Gly Thr Ala Leu
 165 170 175

Phe Ser Thr Ala Val Glu Met Lys Ile Lys Gln Ser Ala Glu Gln Leu
 180 185 190

Glu Asp Lys Lys Arg Lys Ala Ala Lys Met Leu Glu Asn Ile Ile Asp
 195 200 205

Leu Phe Asn Gln Ala Ala Gly Asp Ala Ile Ser Asp Met Leu Val Ile
 210 215 220

Glu Ala Ile Leu Ala Leu Lys Gly Leu Thr Val Gln Gln Trp Asp Ala
 225 230 235 240

Leu Tyr Thr Asp Leu Pro Asn Arg Gln Leu Lys Val Gln Val Ala Asp
 245 250 255

Arg Arg Val Ile Ser Thr Thr Xaa Ala Glu Arg Gln Ala Val Thr Pro
 260 265 270

Pro Gly Leu Gln Glu Ala Ile Asn Asp Leu Val Lys Lys Tyr Lys Leu
 275 280 285

Ser Arg Ala Phe Val Arg Pro Ser Gly Thr Glu Asp Val Val Xaa Ser
 290 295 300

Ile Cys Arg Ser Arg Leu Thr Arg Lys Cys Arg Ser Pro Cys Thr
 305 310 315

<210> 128

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 128

Met Asp Met Val Cys Phe Cys Ile Tyr Leu Gly Leu Leu Lys Phe Ile
 1 5 10 15

Ser Ala Ile Phe Cys Ser Phe Ser Glu Glu Val Leu Tyr Ile Ser Phe
20 25 30

Val Lys Cys Ile Pro Lys Tyr Phe Val Glu Met Leu Leu Xaa
35 40 45

<210> 129

<211> 709

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (275)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (414)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (438)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (641)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (643)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (696)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (697)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 129

Met Ala Gly Leu Asn Cys Gly Val Ser Ile Ala Leu Leu Gly Val Leu
1 5 10 15

Leu Leu Gly Ala Ala Arg Leu Pro Arg Gly Ala Glu Ala Phe Glu Ile
20 25 30

Ala Leu Pro Arg Glu Ser Asn Ile Thr Val Leu Ile Lys Leu Gly Thr
35 40 45

Pro Thr Leu Leu Ala Lys Pro Cys Tyr Ile Val Ile Ser Lys Arg His
50 55 60

Ile Thr Met Leu Ser Ile Lys Ser Gly Glu Arg Ile Val Phe Thr Phe
65 70 75 80

Ser Cys Gln Ser Pro Glu Asn His Phe Val Ile Glu Ile Gln Lys Asn
85 90 ... 95

Ile Asp Cys Met Ser Gly Pro Cys Pro Phe Gly Glu Val Gln Leu Gln
100 105 110

Pro Ser Thr Ser Leu Leu Pro Thr Leu Asn Arg Thr Phe Ile Trp Asp
115 120 125

Val Lys Ala His Lys Ser Ile Gly Leu Glu Leu Gln Phe Ser Ile Pro
130 135 140

Arg Leu Arg Gln Ile Gly Pro Gly Glu Ser Cys Pro Asp Gly Val Thr
145 150 155 160

His Ser Ile Ser Gly Arg Ile Asp Ala Thr Val Val Arg Ile Gly Thr
165 170 175

Phe Cys Ser Asn Gly Thr Val Ser Arg Ile Lys Met Xaa Glu Gly Val
180 185 190

Lys Met Ala Leu His Leu Pro Trp Phe His Pro Arg Asn Val Ser Gly
195 200 205

Phe Ser Ile Ala Asn Arg Ser Ser Ile Lys Arg Leu Cys Ile Ile Glu
210 215 220

Ser Val Phe Glu Gly Glu Gly Ser Ala Thr Leu Met Ser Ala Asn Tyr
225 230 235 240

Pro Glu Gly Phe Pro Glu Asp Glu Leu Met Thr Trp Gln Phe Val Val
245 250 255

Pro Ala His Leu Arg Ala Ser Val Ser Phe Leu Asn Phe Asn Leu Ser
260 265 270

Asn Cys Xaa Arg Lys Glu Glu Arg Val Glu Tyr Tyr Ile Pro Gly Ser
275 280 285

Thr Thr Asn Pro Glu Val Phe Lys Leu Glu Asp Lys Gln Pro Gly Asn
290 295 300

Met Ala Gly Asn Phe Asn Leu Ser Leu Gln Gly Cys Asp Gln Asp Ala
305 310 315 320

Gln Ser Pro Gly Ile Leu Arg Leu Gln Phe Gln Val Leu Val Gln His
325 330 335

Pro Gln Asn Glu Ser Asn Lys Ile Tyr Val Val Asp Leu Ser Asn Glu

340	345	350
Arg Ala Met Ser Leu Thr Ile Glu Pro Arg Pro Val Lys Gln Ser Arg		
355	360	365
Lys Phe Val Pro Gly Cys Phe Val Cys Leu Glu Ser Arg Thr Cys Ser		
370	375	380
Ser Asn Leu Thr Leu Thr Ser Gly Ser Lys His Lys Ile Ser Phe Leu		
385	390	395
Cys Asp Asp Leu Thr Arg Leu Trp Met Asn Val Glu Lys Xaa Ile Ser		
405	410	415
Cys Thr Asp His Arg Tyr Cys Gln Arg Lys Ser Tyr Ser Leu Gln Val		
420	425	430
Pro Ser Asp Ile Leu Xaa Leu Pro Val Glu Leu His Asp Phe Ser Trp		
435	440	445
Lys Leu Leu Val Pro Lys Asp Arg Leu Ser Leu Val Leu Val Pro Ala		
450	455	460
Gln Lys Leu Gln Gln His Thr His Glu Lys Pro Cys Asn Thr Ser Phe		
465	470	475
480		
Ser Tyr Leu Val Ala Ser Ala Ile Pro Ser Gln Asp Leu Tyr Phe Gly		
485	490	495
Ser Phe Cys Pro Gly Gly Ser Ile Lys Gln Ile Gln Val Lys Gln Asn		
500	505	510
Ile Ser Val Thr Leu Arg Thr Phe Ala Pro Ser Phe Arg Gln Glu Ala		
515	520	525
Ser Arg Gln Gly Leu Thr Val Ser Phe Ile Pro Tyr Phe Lys Glu Glu		
530	535	540
Gly Val Phe Thr Val Thr Pro Asp Thr Lys Ser Lys Val Tyr Leu Arg		
545	550	555
560		
Thr Pro Asn Trp Asp Arg Gly Leu Pro Ser Leu Thr Ser Val Ser Trp		
565	570	575
Asn Ile Ser Val Pro Arg Asp Gln Val Ala Cys Leu Thr Phe Phe Lys		
580	585	590
Glu Arg Ser Gly Val Val Cys Gln Thr Gly Arg Ala Phe Met Ile Ile		
595	600	605
Gln Glu Gln Arg Thr Arg Ala Glu Glu Ile Phe Ser Leu Asp Glu Asp		
610	615	620
Val Leu Pro Lys Pro Ser Phe His His Ser Phe Trp Val Asn Ile		
625	630	635
640		
Xaa Asn Xaa Ser Pro Thr Ser Gly Lys Gln Leu Asp Leu Leu Phe Ser		
645	650	655

Val Thr Leu Thr Pro Arg Thr Val Asp Leu Thr Val Ile Leu Ile Ala
 660 665 670

Ala Val Gly Gly Val Leu Leu Leu Ser Ala Leu Gly Leu Ile Ile
 675 680 685

Cys Cys Val Lys Lys Lys Xaa Xaa Thr Arg Gly Pro Ala Val Gly
 690 695 700

Ile Tyr Asn Gly Asn
 705

<210> 130

<211> 415

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (415)

<223> Xaa equals stop translation

<400> 130

Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val
 1 5. 10 15

Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Gly Ala Ala
 20 25 30

His Phe Tyr Leu His Thr Ser Phe Ser Arg Pro His Thr Gly Pro Pro
 35 40 45

Leu Pro Thr Pro Gly Pro Asp Arg Asp Arg Glu Leu Thr Ala Asp Ser
 50 55 60

Asp Val Asp Glu Phe Leu Asp Lys Phe Leu Ser Ala Gly Val Lys Gln
 65 70 75 80

Ser Asp Leu Pro Arg Lys Glu Thr Glu Gln Pro Pro Ala Pro Gly Ser
 85 90 95

Met Glu Glu Asn Val Arg Gly Tyr Asp Trp Ser Pro Arg Asp Ala Arg
 100 105 110

Arg Ser Pro Asp Gln Gly Arg Gln Gln Ala Glu Arg Arg Ser Val Leu
 115 120 125

Arg Gly Phe Cys Ala Asn Ser Ser Leu Ala Phe Pro Thr Lys Glu Arg
 130 135 140

Ala Phe Asp Asp Ile Pro Asn Ser Glu Leu Ser His Leu Ile Val Asp
 145 150 155 160

Asp Arg His Gly Ala Ile Tyr Cys Tyr Val Pro Lys Val Ala Cys Thr
 165 170 175

Asn Trp Lys Arg Val Met Ile Val Leu Ser Gly Ser Leu Leu His Arg
 180 185 190

Gly Ala Pro Tyr Arg Asp Pro Leu Arg Ile Pro Arg Glu His Val His
 195 200 205

Asn Ala Ser Ala His Leu Thr Phe Asn Lys Phe Trp Arg Arg Tyr Gly
 210 215 220

Lys Leu Ser Arg His Leu Met Lys Val Lys Leu Lys Tyr Thr Lys
 225 230 235 240

Phe Leu Phe Val Arg Asp Pro Phe Val Arg Leu Ile Ser Ala Phe Arg
 245 250 255

Ser Lys Phe Glu Leu Glu Asn Glu Phe Tyr Arg Lys Phe Ala Val
 260 265 270

Pro Met Leu Arg Leu Tyr Ala Asn His Thr Ser Leu Pro Ala Ser Ala
 275 280 285

Arg Glu Ala Phe Arg Ala Gly Leu Lys Val Ser Phe Ala Asn Phe Ile
 290 295 300

Gln Tyr Leu Leu Asp Pro His Thr Glu Lys Leu Ala Pro Phe Asn Glu
 305 310 315 320

His Trp Arg Gln Val Tyr Arg Leu Cys His Pro Cys Gln Ile Asp Tyr
 325 330 335

Asp Phe Val Gly Lys Leu Glu Thr Leu Asp Glu Asp Ala Ala Gln Leu
 340 345 350

Leu Gln Leu Leu Gln Val Asp Arg Gln Leu Arg Phe Pro Pro Ser Tyr
 355 360 365

Arg Asn Arg Thr Ala Ser Ser Trp Glu Glu Asp Trp Phe Ala Lys Ile
 370 375 380

Pro Leu Ala Trp Arg Gln Gln Leu Tyr Lys Leu Tyr Glu Ala Asp Phe
 385 390 395 400

Val Leu Phe Gly Tyr Pro Lys Pro Glu Asn Leu Leu Arg Asp Xaa
 405 410 415

<210> 131

<211> 242

<212> PRT

<213> Homo sapiens

<400> 131

Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys
 1 5 10 15

Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys
 20 25 30

Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val
 35 40 45

Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala
 50 55 60

Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile
 65 70 75 80

Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser
 85 90 95

Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala
 100 105 110

Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr
 115 120 125

Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu
 130 135 140

Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly
 145 150 155 160

Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala
 165 170 175

Leu Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu
 180 185 190

Ala Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala
 195 200 205

Tyr Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu
 210 215 220

Leu Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr
 225 230 235 240

Asp Gly

<210> 132
 <211> 313
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (313)
 <223> Xaa equals stop translation

<400> 132
 Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu Tyr
 1 5 10 15

Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Cys Thr Pro
 20 25 30

Val Gly Leu Ser Arg Met Phe Thr Val Met Gly His Leu Leu Val Lys
 35 40 45

Pro Thr Ile Leu Glu Asp Leu Asp Glu Gin Ile Tyr Ile Ile Thr Leu
 50 55 60

Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser Val
 65 70 75 80

Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys Thr
 85 90 95

Leu Lys Thr Lys Leu Glu Arg Arg Lys Lys Ala Ser Ala Trp Glu Arg
 100 105 110

Asn Leu Val Tyr Pro Ala Val Met Val Leu Leu Leu Ile Glu Thr Ser
 115 120 125

Ile Ser Val Leu Leu Val Ala Cys Asn Ile Leu Cys Leu Leu Val Asp
 130 135 140

Glu Thr Ala Met Pro Lys Gly Thr Arg Gly Pro Gly Ile Gly Asn Ala
 145 150 155 160

Ser Leu Ser Thr Phe Gly Phe Val Gly Ala Ala Leu Glu Ile Ile Leu
 165 170 175

Ile Phe Tyr Leu Met Val Ser Ser Val Val Gly Phe Tyr Ser Leu Arg
 180 185 190

Phe Phe Gly Asn Phe Thr Pro Lys Lys Asp Asp Thr Thr Met Thr Lys
 195 200 205

Ile Ile Gly Asn Cys Val Ser Ile Leu Val Leu Ser Ser Ala Leu Pro
 210 215 220

Val Met Ser Arg Thr Leu Gly Ile Thr Arg Phe Asp Leu Leu Gly Asp
 225 230 235 240

Phe Gly Arg Phe Asn Trp Leu Gly Asn Phe Tyr Ile Val Leu Ser Tyr
 245 250 255

Asn Leu Leu Phe Ala Ile Val Thr Thr Leu Cys Leu Val Arg Lys Phe
 260 265 270

Thr Ser Ala Val Arg Glu Glu Leu Phe Lys Ala Leu Gly Leu His Lys
 275 280 285

Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala Lys Pro Ser
 290 295 300

Val Asn Gly His Gln Lys Ala Leu Xaa
 305 310

<210> 133

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals stop translation

<400> 133

Met	Met	Val	Cys	Ser	Ile	Met	Met	Tyr	Phe	Leu	Leu	Gly	Ile	Thr	Leu
1					5				10				15		

Leu	Arg	Ser	Tyr	Met	Gln	Ser	Val	Trp	Thr	Glu	Glu	Ser	Gln	Cys	Thr
					20			25				30			

Leu	Leu	Asn	Ala	Ser	Ile	Thr	Glu	Thr	Phe	Asn	Cys	Ser	Phe	Ser	Cys
					35		40			45					

Gly	Pro	Asp	Cys	Trp	Lys	Leu	Ser	Gln	Tyr	Pro	Cys	Leu	Gln	Val	Tyr
					50		55		60						

Val	Asn	Leu	Thr	Ser	Ser	Gly	Glu	Lys	Leu	Leu	Tyr	His	Thr	Glu	
					65		70		75		80				

Glu	Thr	Ile	Lys	Ile	Asn	Gln	Lys	Cys	Ser	Tyr	Ile	Pro	Lys	Cys	Gly
					85			90		95					

Lys	Asn	Phe	Glu	Glu	Ser	Met	Ser	Leu	Val	Asn	Val	Val	Met	Glu	Asn
					100		105			110					

Phe	Arg	Lys	Tyr	Gln	His	Phe	Ser	Cys	Tyr	Ser	Asp	Pro	Glu	Gly	Asn
					115		120			125					

Gln	Lys	Ser	Val	Ile	Leu	Thr	Lys	Leu	Tyr	Ser	Ser	Asn	Val	Leu	Phe
					130		135			140					

His	Ser	Leu	Phe	Trp	Pro	Thr	Cys	Met	Met	Ala	Gly	Gly	Val	Ala	Ile
					145		150		155				160		

Val	Ala	Met	Val	Lys	Leu	Thr	Gln	Tyr	Leu	Ser	Leu	Leu	Cys	Glu	Arg
					165			170			175				

Ile	Gln	Arg	Ile	Asn	Arg	Xaa									
					180										

<210> 134

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals stop translation

<400> 134

Met	Trp	Lys	Leu	Trp	Arg	Ala	Glu	Glu	Gly	Ala	Ala	Leu	Gly	Gly
1				5			10			15				

Ala	Leu	Phe	Leu	Leu	Phe	Ala	Leu	Gly	Val	Arg	Gln	Leu	Leu	Lys
					20		25			30				

Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe
 35 40 45
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val
 50 55 60
 Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg
 65 70 75 80
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro
 85 90 95
 Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Ser
 100 105 110
 Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu
 115 120 125
 Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro
 130 135 140
 Cys Arg Xaa
 145

<210> 135

<211> 122

<212> PRT

<213> Homo sapiens

<400> 135

Met Arg Val Arg Ile Gly Leu Thr Leu Leu Cys Ala Val Leu Leu
 1 5 10 15

Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp Glu Ser
 20 25 30

Leu Asp Ser Lys Thr Thr Leu Thr Ser Asp Glu Ser Val Lys Asp His
 35 40 45

Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe Leu Asp Ser Glu
 50 55 60

Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu Glu Asp Ser Leu Lys
 65 70 75 80

Ser Gln Glu Gly Glu Ser Val Thr Glu Asp Ile Ser Phe Leu Glu Ser
 85 90 95

Pro Asn Pro Glu Asn Lys Asp Tyr Glu Glu Pro Lys Lys Val Arg Lys
 100 105 110

Pro Gly Ser Leu Asp Ile Phe Leu Ala Phe
 115 120

<210> 136

<211> 112

<212> PRT

<213> Homo sapiens

<400> 136

Met	Ala	Arg	Gly	Ser	Leu	Arg	Arg	Leu	Leu	Arg	Leu	Leu	Val	Leu	Gly
1				5				10					15		

Leu	Trp	Leu	Ala	Leu	Leu	Arg	Ser	Val	Ala	Gly	Glu	Gln	Ala	Pro	Gly
						20		25				30			

Thr	Ala	Pro	Cys	Ser	Arg	Gly	Ser	Ser	Trp	Ser	Ala	Asp	Leu	Asp	Lys
					35			40				45			

Cys	Met	Asp	Cys	Ser	Thr	Ser	Cys	Pro	Leu	Pro	Ala	Ala	Leu	Ala	His
					50			55				60			

Pro	Trp	Gly	Arg	Ser	Glu	Pro	Asp	Leu	Arg	Ala	Gly	Ala	Ala	Phe	Trp
					65			70			75				80

Leu	Phe	Gly	Leu	Glu	Thr	Met	Pro	Gln	Arg	Glu	Lys	Phe	Thr	Thr	Pro
					85			90			95				

Ile	Glu	Glu	Thr	Gly	Gly	Glu	Gly	Cys	Pro	Ala	Val	Ala	Leu	Ile	Gln
					100			105			110				

<210> 137

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals stop translation

<400> 137

Met	Leu	Leu	Gly	Pro	Val	Pro	Ile	Leu	His	Ile	Lys	Ser	Gln	Leu	Trp
1				5				10				15			

Leu	Leu	Val	Leu	Ile	Leu	Val	Val	Ser	Gly	Leu	Ser	Ala	Gly	Met	Ser
				20				25				30			

Ile	Ile	Pro	Thr	Phe	Pro	Glu	Ile	Leu	Ser	Cys	Ala	His	Glu	Asn	Gly
					35			40				45			

Phe	Glu	Gly	Leu	Ser	Thr	Leu	Gly	Leu	Val	Ser	Gly	Leu	Phe	Ser
					50			55			60			

Ala	Met	Trp	Ser	Ile	Gly	Ala	Phe	Met	Gly	Pro	Thr	Leu	Gly	Gly	Phe
				65				70			75				80

Leu	Tyr	Glu	Lys	Ile	Gly	Phe	Glu	Trp	Ala	Ala	Ala	Ile	Gln	Gly	Leu
					85			90				95			

Trp	Ala	Leu	Ile	Ser	Gly	Leu	Ala	Met	Gly	Leu	Phe	Tyr	Leu	Leu	Glu
					100			105			110				

Tyr Ser Arg Arg Lys Arg Ser Lys Ser Gln Asn Ile Leu Ser Thr Glu
115 120 125

Glu Glu Arg Thr Thr Leu Leu Pro Asn Glu Thr Xaa
130 135 140

<210> 138

<211> 404

<212> PRT

<213> Homo sapiens

<400> 138

Met Arg Leu Gln Asp Val Tyr Met Leu Asn Val Lys Gly Leu Ala Arg
1 5 10 15

Gly Val Phe Gln Arg Val Thr Gly Ser Ala Ile Thr Asp Leu Tyr Ser
20 25 30

Pro Lys Arg Leu Phe Ser Leu Thr Gly Asp Asp Cys Phe Gln Val Gly
35 40 45

Lys Val Ala Tyr Asp Met Gly Asp Tyr Tyr His Ala Ile Pro Trp Leu
50 55 60

Glu Glu Ala Val Ser Leu Phe Arg Gly Ser Tyr Gly Glu Trp Lys Thr
65 70 75 80

Glu Asp Glu Ala Ser Leu Glu Asp Ala Leu Asp His Leu Ala Phe Ala
85 90 95

Tyr Phe Arg Ala Gly Asn Val Ser Cys Ala Leu Ser Leu Ser Arg Glu
100 105 110

Phe Leu Leu Tyr Ser Pro Asp Asn Lys Arg Met Ala Arg Asn Val Leu
115 120 125

Lys Tyr Glu Arg Leu Leu Ala Glu Ser Pro Asn His Val Val Ala Glu
130 135 140

Ala Val Ile Gln Arg Pro Asn Ile Pro His Leu Gln Thr Arg Asp Thr
145 150 155 160

Tyr Glu Gly Leu Cys Gln Thr Leu Gly Ser Gln Pro Thr Leu Tyr Gln
165 170 175

Ile Pro Ser Leu Tyr Cys Ser Tyr Glu Thr Asn Ser Asn Ala Tyr Leu
180 185 190

Leu Leu Gln Pro Ile Arg Lys Glu Val Ile His Leu Glu Pro Tyr Ile
195 200 205

Ala Leu Tyr His Asp Phe Val Ser Asp Ser Gln Ala Gln Lys Ile Arg
210 215 220

Glu Leu Ala Glu Pro Trp Leu Gln Arg Ser Val Val Ala Ser Gly Glu
225 230 235 240

Lys Gln Leu Gln Val Glu Tyr Arg Ile Ser Lys Ser Ala Trp Leu Lys
 245 250 255
 Asp Thr Val Asp Leu Lys Leu Val Thr Leu Asn His Arg Ile Ala Ala
 260 265 270
 Leu Thr Gly Leu Asp Val Arg Pro Pro Tyr Ala Glu Tyr Leu Gln Val
 275 280 285
 Val Asn Tyr Gly Ile Gly His Tyr Glu Pro His Phe Asp His Ala
 290 295 300
 Thr Ser Pro Ser Ser Pro Leu Tyr Arg Met Lys Ser Gly Asn Arg Val
 305 310 315 320
 Ala Thr Phe Met Ile Tyr Leu Ser Ser Val Glu Ala Gly Gly Ala Thr
 325 330 335
 Ala Phe Ile Tyr Ala Asn Leu Ser Val Pro Val Val Arg Asn Ala Ala
 340 345 350
 Leu Phe Trp Trp Asn Leu His Arg Ser Gly Glu Gly Asp Ser Asp Thr
 355 360 365
 Leu His Ala Gly Cys Pro Val Leu Val Gly Asp Lys Trp Val Ala Asn
 370 375 380
 Lys Trp Ile His Glu Tyr Gly Gln Glu Phe Arg Arg Pro Cys Ser Ser
 385 390 395 400
 Ser Pro Glu Asp

<210> 139

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals stop translation

<400> 139

Met Lys Ala Pro His Thr Gly Val Leu His Leu Gly Ser Val Trp Val
 1 5 10 15

Phe Leu Gly Pro Phe Leu Leu Gly Val Gly Tyr Thr Leu Thr Phe Asn
 20 25 30

Pro Leu Ser Gly Cys Met Ser Thr Val Arg Trp Leu Asn Ser Asn Ile
 35 40 45

Thr Ala Asn Arg Thr Leu Ser Arg Ser Val Cys His Val Thr Pro Leu
 50 55 60

His Arg Ser Leu Ser Pro His Asp Gly Glu Tyr Leu Arg Gln Met Leu
 65 70 75 80

100

Leu Asn Ser Ser Ser Arg Ala Gly Glu Ala Gly Ser Trp Gly Tyr Xaa
85 90 95

<210> 140

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (240)

<223> Xaa equals stop translation

<400> 140

Met Gly Ser Cys Ala Arg Leu Leu Leu Trp Gly Cys Thr Val Val
1 5 10 15

Ala Ala Gly Leu Ser Gly Val Ala Gly Val Ser Ser Arg Cys Glu Lys
20 25 30

Ala Cys Asn Pro Arg Met Gly Asn Leu Ala Leu Gly Arg Lys Leu Trp
35 40 45

Ala Asp Thr Thr Cys Gly Gln Asn Ala Thr Glu Leu Tyr Cys Phe Tyr
50 55 60

Ser Glu Asn Thr Asp Leu Thr Cys Arg Gln Pro Lys Cys Asp Lys Cys
65 70 75 80

Asn Ala Ala Tyr Pro His Leu Ala His Leu Pro Ser Ala Met Ala Asp
85 90 95

Ser Ser Phe Arg Phe Pro Arg Thr Trp Trp Gln Ser Ala Glu Asp Val
100 105 110

His Arg Glu Lys Ile Gln Leu Asp Leu Glu Ala Glu Phe Tyr Phe Thr
115 120 125

His Leu Ile Val Met Phe Lys Ser Pro Arg Pro Ala Ala Met Val Leu
130 135 140

Asp Arg Ser Gln Asp Phe Gly Lys Thr Trp Lys Pro Tyr Lys Tyr Phe
145 150 155 160

Ala Thr Asn Cys Ser Ala Thr Phe Gly Leu Glu Asp Asp Val Val Lys
165 170 175

Lys Gly Ala Ile Cys Thr Ser Lys Tyr Ser Ser Pro Phe Pro Cys Thr
180 185 190

Gly Arg Lys Val Ile Phe Lys Ala Leu Ser Pro Pro Tyr Asp Thr Glu
195 200 205

Asn Pro Tyr Ser Ala Lys Val Gln Glu Gln Leu Lys Ile Thr Asn Leu

210 215 220

Pro Arg Ala Ala Ala Glu Thr Thr Val Leu Ser Leu Ser Glu Lys Xaa
225 230 235 240

<210> 141

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals stop translation

<400> 141

Met Met Ile Ser Gly Leu Lys Leu Leu Val Leu Phe Leu Lys Phe Ala
1 5 10 15Pro Glu Asn Tyr Cys Leu Ser Thr Glu Thr Leu Gln Met Pro Asn Arg
20 25 30His Leu Arg Leu Ser Lys Ala Thr Cys Tyr Leu Met Lys Cys Leu Leu
35 40 45Pro Ser Tyr Phe Glu Xaa
50

<210> 142

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 142

Met Arg Ser Leu Ile Ser Ser His Pro Cys Gln His Leu Leu Leu Leu
1 5 10 15Leu Leu Leu Phe Leu Ile Leu Ala Ile Leu Val Asp Val Lys Trp
20 25 30Tyr Leu Val Leu Phe Ile Cys Ile Ser Leu Met Thr Ser Asp Val Glu
35 40 45His Leu Phe Met Cys Leu Leu Ala Ile Arg Ile Ser Ser Trp Arg Asn
50 55 60Val Tyr Xaa
65

<210> 143

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 143

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
20 25 30

Ile Cys Ser Gln Arg Asn Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
35 40 45

Leu Gln Thr Thr Trp Gly Xaa Pro Asp Xaa Gln Phe Pro Gly Cys Pro
50 55 60

His Pro Xaa Arg Val Thr Leu Asn Ala Arg Gln Met Gly Asn Gly Lys
65 70 75 80

Glu Lys Lys Ala Ala Asp Leu Lys Leu Lys Phe Pro Gln Lys Arg Phe
85 90 95

Tyr Leu Ser Ala Phe Ser Glu Arg Ile Lys Ala Phe
100 105

<210> 144

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals stop translation

<400> 144

Met Ala Ser Val Gly Thr Thr Leu Val Ser Pro Leu Leu Cys Leu Leu
1 5 10 15Ile Pro Thr Arg Val Ser Asp Pro Trp Leu Gln Asn Thr Pro Leu His
20 25 30Pro Trp Lys Thr Ile Thr Ile Ile Asp Tyr Tyr Leu Ser Leu Gly Phe
35 40 45Leu Gly Trp Thr Gly Leu Ser Trp Val Val His Phe Gly Ala Ser Ala
50 55 60Val Met Gly Arg Gln Trp Leu Gly Ser Leu Gln Arg Leu Pro Cys Ile
65 70 75 80

Ser Gly Ser Xaa

<210> 145

<211> 166

<212> PRT

<213> Homo sapiens

<400> 145

Met Gly Ser Arg Phe Leu Leu Val Leu Leu Ser Gly Leu Thr Val Leu
1 5 10 15Leu Ala Leu Pro Gly Ser Glu Ala Lys Asn Ser Gly Ala Ser Cys Pro
20 25 30Pro Cys Pro Lys Tyr Ala Ser Cys His Asn Ser Thr His Cys Thr Cys
35 40 45Glu Asp Gly Phe Arg Ala Arg Ser Gly Arg Thr Tyr Phe His Asp Ser
50 55 60Ser Glu Lys Cys Glu Asp Ile Asn Glu Cys Glu Thr Gly Leu Ala Lys
65 70 75 80Cys Lys Tyr Lys Ala Tyr Cys Arg Asn Lys Val Gly Gly Tyr Ile Cys
85 90 95Ser Cys Leu Val Lys Tyr Thr Leu Phe Asn Phe Leu Ala Gly Ile Ile
100 105 110Asp Tyr Asp His Pro Asp Cys Tyr Glu Asn Asn Ser Gln Gly Thr Thr
115 120 125Gln Ser Asn Val Asp Ile Trp Val Ser Gly Val Lys Pro Gly Phe Gly
130 135 140Lys Gln Leu Val Arg Ile Thr Met Pro Phe Ser Tyr Pro Asn Ile Asn
145 150 155 160Met Ser Ser Cys Asp Phe
165

<210> 146

<211> 70

<212> PRT

<213> Homo sapiens

<400> 146

Met Lys Pro Lys His Leu Glu Trp Cys Leu Ala His Ser Trp Cys Val
1 5 10 15Ile Trp Leu Ser Phe Val Ser Pro Pro Thr Ser His Leu Glu Cys Asp
20 25 30Gly Phe Pro Gly Ser Leu Leu Pro Pro Cys Glu Glu Gly Arg Cys Phe
35 40 45Pro Phe Thr Phe His His His Asp Cys His Gly Cys Ser Pro Leu Gln
50 55 60Ser Ser Pro Gly Gln His
65 70

<210> 147

<211> 412

<212> PRT

<213> Homo sapiens

<400> 147

Met Cys Cys Trp Pro Leu Leu Leu Leu Trp Gly Leu Leu Pro Gly Thr
1 5 10 15Ala Ala Gly Gly Ser Gly Arg Thr Tyr Pro His Arg Thr Leu Leu Asp
20 25 30Ser Glu Gly Lys Tyr Trp Leu Gly Trp Ser Gln Arg Gly Ser Gln Ile
35 40 45Ala Phe Arg Leu Gln Val Arg Thr Ala Gly Tyr Val Gly Phe Gly Phe
50 55 60Ser Pro Thr Gly Ala Met Ala Ser Ala Asp Ile Val Val Gly Gly Val
65 70 75 80Ala His Gly Arg Pro Tyr Leu Gln Asp Tyr Phe Thr Asn Ala Asn Arg
85 90 95Glu Leu Lys Lys Asp Ala Gln Gln Asp Tyr His Leu Glu Tyr Ala Met
100 105 110Glu Asn Ser Thr His Thr Ile Ile Glu Phe Thr Arg Glu Leu His Thr
115 120 125Cys Asp Ile Asn Asp Lys Ser Ile Thr Asp Ser Thr Val Arg Val Ile
130 135 140Trp Ala Tyr His His Glu Asp Ala Gly Glu Ala Gly Pro Lys Tyr His
145 150 155 160

Asp Ser Asn Arg Gly Thr Lys Ser Leu Arg Leu Leu Asn Pro Glu Lys
 165 170 175

Thr Ser Val Leu Ser Thr Ala Leu Pro Tyr Phe Asp Leu Val Asn Gln
 180 185 190

Asp Val Pro Ile Pro Asn Lys Asp Thr Thr Tyr Trp Cys Gln Met Phe
 195 200 205

Lys Ile Pro Val Phe Gln Glu Lys His His Val Ile Lys Val Glu Pro
 210 215 220

Val Ile Gln Arg Gly His Glu Ser Leu Val His His Ile Leu Leu Tyr
 225 230 235 240

Gln Cys Ser Asn Asn Phe Asn Asp Ser Val Leu Glu Ser Gly His Glu
 245 250 255

Cys Tyr His Pro Asn Met Pro Asp Ala Phe Leu Thr Cys Glu Thr Val
 260 265 270

Ile Phe Ala Trp Ala Ile Gly Gly Glu Gly Phe Ser Tyr Pro Pro His
 275 280 285

Val Gly Leu Ser Leu Gly Thr Pro Leu Asp Pro His Tyr Val Leu Leu
 290 295 300

Glu Val His Tyr Asp Asn Pro Thr Tyr Glu Glu Gly Leu Ile Asp Asn
 305 310 315 320

Ser Gly Leu Arg Leu Phe Tyr Thr Met Asp Ile Arg Lys Tyr Asp Ala
 325 330 335

Gly Val Ile Glu Ala Gly Leu Trp Val Ser Leu Phe His Thr Ile Pro
 340 345 350

Pro Gly Met Pro Glu Phe Gln Ser Glu Gly His Cys Thr Leu Glu Cys
 355 360 365

Leu Glu Glu Leu Trp Lys Pro Lys Ser Gln Val Glu Phe Met Cys Leu
 370 375 380

Leu Phe Phe Ser Met Leu Thr Trp Leu Ala Glu His Gln Ala Ala Ser
 385 390 395 400

Phe Ser Lys Arg Glu Gly Asn Glu Ile Thr Cys Leu
 405 410

<210> 148

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals stop translation

<400> 148

Met Asn Val Phe Leu Pro Pro Ala Leu Gly Thr Trp Gly Val Ala Arg
1 5 10 15Phe Phe Pro His Leu Val Pro Glu Arg Trp Cys Leu Val Phe Cys Cys
20 25 30Trp Ile Phe Phe Phe Phe Cys Thr Lys Val Ala Thr Arg
35 40 45Ser Val Leu Gly Asp Gln Ala Gly Leu Gly Val Gly Pro His Leu
50 55 60Pro Leu Pro Gly Ser His Ser Val Ser Val Pro Glu Lys Thr Ile Phe
65 70 75 80Ser Leu Lys Gln Xaa
85

<210> 149

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (154)

<223> Xaa equals stop translation

<400> 149

Met Gly Arg Leu Pro Leu Leu Arg Arg Val Leu Lys Gly Leu Gln Leu
1 5 10 15Leu Leu Ser Leu Leu Ala Phe Ile Cys Glu Glu Val Val Ser Gln Cys
20 25 30Thr Leu Cys Gly Gly Leu Tyr Phe Phe Glu Phe Val Ser Cys Ser Ala
35 40 45Phe Leu Leu Ser Leu Leu Ile Leu Ile Val Tyr Cys Thr Pro Phe Tyr
50 55 60Glu Arg Val Asp Thr Thr Lys Val Lys Ser Ser Asp Phe Tyr Ile Thr
65 70 75 80Leu Gly Thr Gly Cys Val Phe Leu Leu Ala Ser Ile Ile Phe Val Ser
85 90 95Thr His Asp Arg Thr Ser Ala Glu Ile Ala Ala Ile Val Phe Gly Phe
100 105 110Ile Ala Ser Phe Met Phe Leu Leu Asp Phe Ile Thr Met Leu Tyr Glu
115 120 125Lys Arg Gln Glu Ser Gln Leu Arg Lys Pro Glu Asn Thr Thr Arg Ala
130 135 140

Glu Ala Leu Thr Glu Pro Leu Asn Ala Xaa

145 150

<210> 150
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (130)
<223> Xaa equals stop translation

<400> 150

Met Arg Gly His Leu Ala Gly Phe Pro Ala Leu Ser Gly Leu Ala Ser
1 5 10 15

Val Cys Leu Trp Ala Thr Phe Ser Ala Gln Leu Pro Gly Pro Val Ala
20 25 30

Ala Thr Ser Trp Thr Pro Ala Pro Leu Gly Cys Ser Ala Ala Arg Ser
35 40 45

Gly Pro Glu Lys Arg Leu Gly Thr Ala Ala Pro Gly Ser Ala Ala Ser
50 55 60

Leu Ala Gln Ala Gly Pro Gly Ala Pro Cys Arg Val Leu Pro Val Asp
65 70 75 80

Pro Ala Pro Ala Ala Leu Asn Val Arg Glu Pro Gly Trp Leu Gly Gly
85 90 95

Leu Phe Asp Gly Ala Leu Leu Gln Val Leu Leu Asn Phe Leu Arg Lys
100 105 110

Ser Thr Asp Val Leu Met Asp Thr Arg Glu Ala Glu Ser Leu Glu Val
115 120 125

Glu Xaa
130

<210> 151
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals stop translation

<400> 151

Met Leu Phe Trp Ala Tyr Pro Ile Cys Val Phe Ile Asp Ser Leu Ser
1 5 10 15

Cys Gln Pro Cys Leu Trp Ser Thr Gly Ala Thr Ser His Phe Asn Ser
20 25 30

Pro Thr Thr Ser Pro Leu Phe Thr Leu Phe Met Pro Cys Ala Leu Ala
35 40 45

Pro Asn Pro Phe Thr Gln Leu Gly Lys Leu Asp Asp Arg Xaa
50 55 60

<210> 152
<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (225)
<223> Xaa equals stop translation

<400> 152
Met Gly Ile Phe Pro Gly Ile Ile Leu Ile Phe Leu Arg Val Lys Phe
1 5 10 15

Ala Thr Ala Ala Val Ile Val Ser Gly His Gin Lys Ser Thr Thi Val
20 25 30

Ser His Glu Met Ser Gly Leu Asn Trp Lys Pro Phe Val Tyr Gly Gly
35 40 45

Leu Ala Ser Ile Val Ala Glu Phe Gly Thr Phe Pro Val Asp Leu Thr
50 55 60

Lys Thr Arg Leu Gln Val Gln Gly Gln Ser Ile Asp Ala Arg Phe Lys
65 70 75 80

Glu Ile Lys Tyr Arg Gly Met Phe His Ala Leu Phe Arg Ile Cys Lys
85 90 95

Glu Glu Gly Val Leu Ala Leu Tyr Ser Gly Ile Ala Pro Ala Leu Leu
100 105 110

Arg Gln Ala Ser Tyr Gly Thr Ile Lys Ile Gly Ile Tyr Gln Ser Leu
115 120 125

Lys Arg Leu Phe Val Glu Arg Leu Glu Asp Glu Thr Leu Leu Ile Asn
130 135 140

Met Ile Cys Gly Val Val Ser Gly Val Ile Ser Ser Thr Ile Ala Asn
145 150 155 160

Pro Thr Asp Val Leu Lys Ile Arg Met Gin Ala Gln Gly Ser Leu Phe
165 170 175

Gln Gly Ser Met Ile Gly Ser Phe Ile Asp Ile Tyr Gln Gln Glu Gly
180 185 190

Thr Arg Gly Leu Trp Arg Val Ser Thr Leu Phe Leu Leu Ser Tyr
195 200 205

Thr Leu Ser Ser Tyr Asn Leu Gln Arg Ile Phe Phe Tyr Ile Lys Thr
210 215 220

Xaa
225

<210> 153
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals stop translation

<400> 153

Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala
1 5 10 15

Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp
20 25 30

Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu
35 40 45

Gly Val Leu Leu Leu Leu Ala Ala Gly Arg Pro Gly Gly Ala Ala Val
50 55 60

Leu Leu Ser Leu Xaa
65

<210> 154
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals stop translation

<400> 154

Met Tyr Gly Val Cys Leu Cys Val Ile Val Cys Val Ser Gly Val Ser
1 5 10 15

Leu Cys Leu Tyr Val Trp Gly Val Ser Val Cys Asp Cys Val Ser Val
20 25 30

Phe Met Cys Val Cys Leu Cys Val Ile Phe Cys Val Tyr Gly Lys Pro
35 40 45

Arg Thr Glu His Tyr His Ser Pro His Leu Ala Lys Gin Lys Ala Phe
50 55 60

Arg Glu Met Cys Gly Arg His Asp Val Ser Ala Ala Gly Ile Phe Gln
65 70 75 80

Ser Tyr Val Xaa

<210> 155

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 155

Met His Val Leu Leu Phe Ser Phe Leu Ile Pro Phe Leu Leu Ser
1 5 10 15Pro Val Gly Val Thr Cys Asn Ser His Met Leu Glu Arg Gln Val Ser
20 25 30Trp Leu Lys Lys Arg Ser Thr Gln Ala Ser Gln Gln Phe Asn Lys Phe
35 40 45Leu Arg Gly Ile Ser Asn Val Gly Arg Ile Val Ile Xaa
50 55 60

<210> 156

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals stop translation

<400> 156

Met Cys Leu Leu Val Glu Tyr Ser Leu Met Ile Leu Thr Ile Ile Pro
1 5 10 15Ser Leu Leu Ser Phe Val Leu Cys Leu Lys Gly Ile Lys His Gly Asn
20 25 30Tyr Ile Phe Gln Thr Pro Leu Pro Glu Gly Tyr Gly Trp Ile Ser Ala
35 40 45Met Ser Gly Leu Cys Ile Lys Phe Gly Arg Arg Lys Arg Arg Lys Thr
50 55 60Trp Leu Leu Gln Val Gly Thr Leu Ala Thr Ile Asp Thr Glu Phe Ala
65 70 75 80

Arg Ser Cys Xaa

<210> 157

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals stop translation

<400> 157

Met Ala Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn
1 5 10 15Val Ser Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe
20 25 30Ala Glu Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val
35 40 45Pro Val Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys
50 55 60Lys Thr Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu
65 70 75 80Ile Ala Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr
85 90 95Leu Gly Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met
100 105 110Val Ala Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met
115 120 125Glu Asn Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met
130 135 140Pro Pro Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn
145 150 155 160

Glu Xaa

<210> 158

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 158
Met Glu Pro Gln Leu Gly Pro Glu Ala Ala Ala Leu Arg Pro Gly Trp
1 5 10 15

Leu Ala Leu Leu Leu Trp Val Ser Ala Leu Ser Cys Ser Phe Ser Leu
20 25 30

Pro Ala Ser Ser Leu Ser Ser Leu Val Pro Gln Val Arg Thr Ser Tyr
35 40 45

Asn Phe Gly Arg Thr Phe Leu Gly Leu Asp Lys Cys Asn Ala Cys Ile
50 55 60

Gly Thr Ser Ile Cys Lys Lys Phe Phe Lys Glu Glu Ile Arg Ser Asp
65 70 75 80

Asn Trp Leu Ala Ser His Leu Gly Thr Ala Ser Arg Phe Pro Leu Xaa
85 90 95

Ser Tyr Pro Cys Lys Leu Leu Gin Met Ile Xaa Lys Ile Trp Xaa Pro
100 105 110

Cys Gly Xaa Leu Leu Thr Gly Gln Gln Xaa Ser Asn Glu Ile Ser Lys
115 120 125

Gln Glu Ile Xaa Cys Leu Leu His Pro Pro Pro Lys Asn Leu His Ile
130 135 140

Asp Val
145

<210> 159
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (143)

<223> Xaa equals stop translation

<400> 159

Met Trp Trp Ala Val Met Gly Gly Val Ile Gly Ser Trp Leu Ser Pro
1 5 10 15

Leu Ser Ile Ala Glu Cys Cys His Asp Leu Trp Thr Ser Gln Ser Cys
20 25 30

Glu His Ala Gly Ala Leu Cys Gly Asp Leu Leu Cys Ala Cys Arg Lys
35 40 45

Val Gly Val Trp Cys Ala Leu Gln Gln His Trp Trp Asn Arg Cys Val
50 55 60

Cys Pro His Ala Val Ile Arg Val His Cys Thr Gly Ala Ser Tyr Thr
65 70 75 80

Leu Gln Lys Ile Cys Ser Cys Asn Pro Lys Phe Met Gly Arg His Pro
85 90 95

His Arg Trp Gln Gln Ile Arg Lys Cys Ser Gln Pro Val Leu Arg Gly
100 105 110

Ser Arg Ala Ala Phe Ile Trp Val Arg Leu Ala Ala Leu Asn Phe Ile
115 120 125

Ser Ser Phe Arg Cys Ile Ser Leu Ile Ser Tyr Ser Ala Phe Xaa
130 135 140

<210> 160

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 160

Met Lys Val Ser Asp Phe Asn Phe Leu Ile Phe Leu Ile Phe Ala Leu
1 5 10 15

Phe Leu Thr Leu Glu Ala Phe Leu Lys Phe Thr Lys Arg Val Leu Ala
20 25 30

Val Val Gly Asn Leu Pro Glu Pro Pro Ile Ile Lys Thr Ile Gly Phe
35 40 45

Leu Tyr Xaa
50

<210> 161

<211> 65

<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals stop translation

<400> 161
Met Val Trp Ser Ala Ala Pro Ala Pro Cys Cys Leu Leu Gly Val Leu
1 5 10 15

Gly Leu Val Gln Val Leu Gly Ala Gln Ala Val Gly Pro Trp Thr Ala
20 25 30

Ser Ala Cys Leu Gly Ala Ala Gln Ala Gln Pro Cys Arg Pro Cys Lys
35 40 45

Glu Ser Ser Leu Arg Leu Phe Ser Ala Ser Ala Pro Ser Met Thr His
50 55 60

Xaa
65

<210> 162
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals stop translation

<400> 162
Met Glu Lys Tyr Cys Leu Gly Asn Asn Met Leu Ser Arg Phe Cys Leu
1 5 10 15

Phe Leu Ile Met Leu Leu His Ile Leu Leu Phe Leu Val Ile Phe Ile
20 25 30

Gln Arg His Thr Val Val Ser Leu Ser Lys His His Pro Phe Val Pro
35 40 45

Thr Asn Gly Ser Lys Ser Tyr Ser Ser Phe Xaa
50 55

<210> 163
<211> 374
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 163

Met Arg Pro Gly Thr Ala Leu Gln Ala Val Leu Leu Ala Val Leu Leu
1 5 10 15Val Gly Leu Arg Ala Ala Thr Gly Arg Leu Leu Ser Gly Gln Pro Val
20 25 30Cys Arg Gly Gly Thr Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His
35 40 45Asp Thr Ser Arg Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala Cys Arg
50 55 60Arg Asp Gly Gly Gln Leu Val Ser Ile Glu Ser Glu Asp Glu Gln Lys
65 70 75 80Leu Ile Glu Xaa Phe Ile Glu Asn Leu Leu Pro Ser Asp Gly Asp Phe
85 90 95Trp Ile Gly Leu Arg Arg Glu Glu Lys Gln Ser Asn Ser Thr Xaa
100 105 110Cys Gln Asp Leu Tyr Ala Trp Thr Asp Gly Ser Ile Ser Gln Phe Arg
115 120 125Asn Trp Tyr Val Asp Glu Pro Ser Cys Gly Ser Glu Val Cys Val Val
130 135 140Met Tyr His Gln Pro Ser Ala Pro Ala Gly Ile Gly Gly Pro Tyr Met
145 150 155 160Phe Gln Trp Asn Asp Asp Arg Cys Asn Met Lys Asn Asn Phe Ile Cys
165 170 175Lys Tyr Ser Asp Glu Lys Pro Ala Val Pro Ser Arg Glu Ala Glu Gly
180 185 190Glu Glu Thr Glu Leu Thr Pro Val Leu Pro Glu Gln Thr Gln Glu
195 200 205Glu Asp Ala Lys Lys Thr Phe Lys Glu Ser Arg Glu Ala Ala Leu Asn
210 215 220Leu Ala Tyr Ile Leu Ile Pro Ser Ile Pro Leu Leu Leu Leu Val
225 230 235 240Val Thr Thr Val Val Cys Trp Val Trp Ile Cys Arg Lys Arg Lys Arg
245 250 255Glu Gln Pro Asp Pro Ser Thr Lys Lys Gln His Thr Ile Trp Pro Ser
260 265 270Pro His Gln Gly Asn Ser Pro Asp Leu Glu Val Tyr Asn Val Ile Arg
275 280 285

Lys Gln Ser Glu Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn

290	295	300
-----	-----	-----

Ile Ser Phe Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser		
305	310	315

320

Cys Asp Tyr Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val		
325	330	335

Thr Leu Val Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu		
340	345	350

Phe Ser Pro Asp Gln Met Gly Arg Ser Lys Glu Ser Gly Trp Val Glu		
355	360	365

Asn Glu Ile Tyr Gly Tyr		
370		

<210> 164

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals stop translation

<400> 164

Met His Pro Gln Leu Ile Pro Ser Val Ile Ala Val Val Phe Ile Leu			
1	5	10	15

Leu Leu Gly Val Cys Phe Ile Ala Ser Cys Leu Val Thr His His Asn			
20	25	30	

Phe Ser Arg Cys Lys Arg Gly Thr Gly Val His Lys Leu Glu His His			
35	40	45	

Ala Lys Leu Lys Cys Ile Lys Glu Lys Ser Glu Leu Lys Ser Cys Xaa			
50	55	60	

<210> 165

<211> 743

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (743)

<223> Xaa equals stop translation

<400> 165

Met Ala Val Arg Glu Leu Cys Phe Pro Arg Gln Arg Gln Val Leu Phe			
1	5	10	15

Leu Phe Leu Phe Trp Gly Val Ser Leu Ala Gly Ser Gly Phe Gly Arg
20 25 30

Tyr Ser Val Thr Glu Glu Thr Glu Lys Gly Ser Phe Val Val Asn Leu
35 40 45

Ala Lys Asp Leu Gly Leu Ala Glu Gly Glu Leu Ala Ala Arg Gly Thr
50 55 60

Arg Val Val Ser Asp Asp Asn Lys Gln Tyr Leu Leu Leu Asp Ser His
65 70 75 80

Thr Gly Asn Leu Leu Thr Asn Glu Lys Leu Asp Arg Glu Lys Leu Cys
85 90 95

Gly Pro Lys Glu Pro Cys Met Leu Tyr Phe Gln Ile Leu Met Asp Asp
100 105 110

Pro Phe Gln Ile Tyr Arg Ala Glu Leu Arg Val Arg Asp Ile Asn Asp
115 120 125

His Ala Pro Val Phe Gln Asp Lys Glu Thr Val Leu Lys Ile Ser Glu
130 135 140

Asn Thr Ala Glu Gly Thr Ala Phe Arg Leu Glu Arg Ala Gln Asp Pro
145 150 155 160

Asp Gly Gly Leu Asn Gly Ile Gln Asn Tyr Thr Ile Ser Pro Asn Ser
165 170 175

Phe Phe His Ile Asn Ile Ser Gly Gly Asp Glu Gly Met Ile Tyr Pro
180 185 190

Glu Leu Val Leu Asp Lys Ala Leu Asp Arg Glu Glu Gln Gly Glu Leu
195 200 205

Ser Leu Thr Leu Thr Ala Leu Asp Gly Gly Ser Pro Ser Arg Ser Gly
210 215 220

Thr Ser Thr Val Arg Ile Val Val Leu Asp Val Asn Asp Asn Ala Pro
225 230 235 240

Gln Phe Ala Gln Ala Leu Tyr Glu Thr Gln Ala Pro Glu Asn Ser Pro
245 250 255

Ile Gly Phe Leu Ile Val Lys Val Trp Ala Glu Asp Val Asp Ser Gly
260 265 270

Val Asn Ala Glu Val Ser Tyr Ser Phe Phe Asp Ala Ser Glu Asn Ile
275 280 285

Arg Thr Thr Phe Gln Ile Asn Pro Phe Ser Gly Glu Ile Phe Leu Arg
290 295 300

Glu Leu Leu Asp Tyr Glu Leu Val Asn Ser Tyr Lys Ile Asn Ile Gln
305 310 315 320

Ala Met Asp Gly Gly Leu Ser Ala Arg Cys Arg Val Leu Val Glu
325 330 335

Val Leu Asp Thr Asn Asp Asn Pro Pro Glu Leu Ile Val Ser Ser Phe
340 345 350

Ser Asn Ser Val Ala Glu Asn Ser Pro Glu Thr Pro Leu Ala Val Phe
355 360 365

Lys Ile Asn Asp Arg Asp Ser Gly Glu Asn Gly Lys Met Val Cys Tyr
370 375 380

Ile Gln Glu Asn Leu Pro Phe Leu Leu Lys Pro Ser Val Glu Asn Phe
385 390 395 400

Tyr Ile Leu Ile Thr Glu Gly Ala Leu Asp Arg Glu Ile Arg Ala Glu
405 410 415

Tyr Asn Ile Thr Ile Thr Val Thr Asp Leu Gly Thr Pro Arg Leu Lys
420 425 430

Thr Glu His Asn Ile Thr Val Leu Val Ser Asp Val Asn Asn Asn Ala
435 440 445

Pro Ala Phe Thr Gln Thr Ser Tyr Thr Leu Phe Val Arg Glu Asn Asn
450 455 460

Ser Pro Ala Leu His Ile Gly Ser Val Ser Ala Thr Asp Arg Asp Ser
465 470 475 480

Gly Thr Asn Ala Gln Val Thr Tyr Ser Leu Leu Pro Pro Gln Asp Pro
485 490 495

His Leu Pro Leu Ala Ser Leu Val Ser Ile Asn Ala Asp Asn Gly His
500 505 510

Leu Phe Ala Leu Arg Ser Leu Asp Tyr Glu Ala Leu Gln Ala Phe Glu
515 520 525

Phe Arg Val Gly Ala Thr Asp Arg Gly Ser Pro Ala Leu Asn Ser Glu
530 535 540

Ala Leu Gly Ala Arg Ala Gly Ala Gly Arg Gln Arg Gln Leu Ala Leu
545 550 555 560

Arg Ala Val Pro Ala Ala Glu Arg Leu Arg Ala Leu His Arg Ala Gly
565 570 575

Ala Pro Gly Gly Arg Ala Gly Leu Pro Gly Asp Gln Gly Gly Gly
580 585 590

Gly Arg Arg Leu Gly Pro Glu Arg Leu Ala Val Val Pro Ala Ala Gln
595 600 605

Gly His Gly Ala Arg Ala Val Arg Cys Val Gly Ala Gln Trp Gly Gly
610 615 620

Ala His Arg Gln Ala Ala Glu Arg Ala Arg Arg Ser Gln Ala Gln Ala
625 630 635 640

Gly Gly Ala Cys Gln Gly Gln Trp Arg Ala Ser Ser Leu Gly His Arg

645

650

655

His Ala Ala Arg Ala Pro Gly Gly Arg Leu Leu Pro Ala Leu Pro Ala
 660 665 670

Ser Pro Gly Gly Gly Pro Gly Pro Gly Pro Gly Arg Leu Ala His Arg
 675 680 685

Leu Pro Gly Gly Gly Val Gly Leu Gly Val Phe Ala Leu Pro Pro Leu
 690 695 700

Gly Ala Pro Val Arg Gly Gly Ala Ala Val Gln Glu Glu Gln Gly Gly
 705 710 715 720

Leu Gly Gly Ser Leu Leu Gly Ala Arg Gly Ser Phe Ser Arg Ala Ser
 725 730 735

Gly Gly Arg Glu Gly Arg Xaa
 740

<210> 166

<211> 214

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (214)

<223> Xaa equals stop translation

<400> 166

Met Asn Arg Met Glu Leu Leu Lys Leu Leu Leu Thr Cys Phe Ser Glu
 1 5 10 15

Ala Met Tyr Leu Pro Pro Ala Pro Glu Ser Gly Ser Thr Asn Pro Trp
 20 25 30

Val Gln Phe Phe Cys Ser Thr Glu Asn Arg His Ala Leu Pro Leu Phe
 35 40 45

Thr Ser Leu Leu Asn Thr Val Cys Ala Tyr Asp Pro Val Gly Tyr Gly
 50 55 60

Ile Pro Tyr Asn His Leu Leu Phe Ser Asp Tyr Arg Glu Pro Leu Val
 65 70 75 80

Glu Glu Ala Ala Gln Val Leu Ile Val Thr Leu Asp His Asp Ser Ala
 85 90 95

Ser Ser Ala Ser Pro Thr Val Asp Gly Thr Thr Gly Thr Ala Met
 100 105 110

Asp Asp Ala Asp Pro Pro Gly Pro Glu Asn Leu Phe Val Asn Tyr Leu
 115 120 125

Ser Arg Ile His Arg Glu Glu Asp Phe Gln Phe Ile Leu Lys Gly Ile
 130 135 140

Ala Arg Leu Leu Ser Asn Pro Leu Leu Gln Thr Tyr Leu Pro Asn Ser
 145 150 155 160

Thr Lys Lys Asp Pro Val Pro Pro Gly Ala Ala Ser Ser Leu Leu Glu
 165 170 175

Ala Leu Arg Leu Gln Gln Glu Ile Pro Leu Leu Arg Ala Glu Glu Gln
 180 185 190

Arg Arg Pro Arg His Pro Cys Pro His Pro Leu Leu Pro Gln Arg Cys
 195 200 205

Pro Gly Arg Ser Val Xaa
 210

<210> 167

<211> 213

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (213)

<223> Xaa equals stop translation

<400> 167

Met Pro Ser Leu Arg Phe Leu Ala Leu Ala Leu Leu Ala Ile Leu
 1 5 10 15

Pro Ala Leu Pro Asn Ala His Ala Ala Pro Gly Ile Gly Gly Leu Ile
 20 25 30

Gly Gly Gly Ser Gln Ala Ser Ala Lys Glu Glu Pro Gln Ser Asn Ala
 35 40 45

Gln Pro Ser Ala Asp Glu Arg Lys Gln Arg Leu Leu Ser Gln Ala Glu
 50 55 60

Glu Thr Arg Gln Arg Leu Thr Asp Leu Lys Ala Glu Leu Ala Gly Ala
 65 70 75 80

Pro Lys Glu Ile Ser Glu Ala Gln Arg Thr Leu Ser Lys Leu Val Ser
 85 90 95

Glu Asp Asn Ser Asp Leu Pro Glu Arg Leu Ser Lys Leu Ser Val Pro
 100 105 110

Val Leu Glu Gln Arg Leu Ala Ala Arg Val Asp Glu Leu Ala Leu Trp
 115 120 125

Gln Gln Ala Leu Ser Ala Ala Asn Ser Met Leu Ile Ser Ala Gln Thr
 130 135 140

Arg Pro Glu Arg Ala Gln Ala Asp Ile Ser Lys Asn Gln Leu Arg Ile
 145 150 155 160

Asp Glu Ile Asn Gly Leu Leu Lys Ser Gly Arg Glu Asn Asn Lys Pro
 165 170 175

Leu Thr Asp Glu Arg Arg Ala Leu Leu Glu Ser Thr Ser Arg Ala Ala
180 185 190

Ala Gly Pro Ser Ile Phe His Pro Gly Gly Val Pro Gly Lys Cys Thr
195 200 205

Gln Phe Ala Leu Xaa
210

<210> 168

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals stop translation

<400> 168

Met Phe Thr Ser Phe Gly Leu Ala Ser Pro Arg Ile Leu Phe Cys Phe
1 5 10 15

Cys Phe Phe Asp Leu Gly Phe Ile Phe Phe Cys Val Leu Tyr Tyr Ile
20 25 30

Val Lys Gly Ile Leu Ala Glu Thr Leu Val Phe Gly Ala Arg Gly Glu
35 40 45

Gln Glu Cys Trp Ala Val Tyr Phe Arg Trp Arg Thr His Leu Gln Thr
50 55 60

Phe Gly Leu Phe Ser Phe Asn Cys Ser Val Xaa
65 70 75

<210> 169

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 169

Met Phe Leu Cys Leu Phe Phe Phe Phe Asn Ala Thr Gln Gly Asn
1 5 10 15

Ile Phe Ile Ser Phe Leu Ser Gly Leu Pro Gln Cys Ile Phe Ile Ser
20 25 30

Phe Glu Thr Lys Arg Phe Trp Lys Leu Phe Phe Cys Ser Phe Lys Xaa
35 40 45

<210> 170
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> Xaa equals stop translation

<400> 170
Met Gly Leu His Leu Arg Pro Tyr Arg Val Gly Leu Leu Pro Asp Gly
1 5 10 15

Leu Leu Phe Leu Leu Leu Leu Met Leu Leu Ala Asp Pro Ala Leu
20 25 30

Pro Ala Gly Arg His Pro Pro Val Val Leu Val Pro Gly Asp Leu Gly
35 40 45

Asn Gln Leu Glu Ala Lys Leu Asp Lys Pro Thr Val Val His Tyr Leu
50 55 60

Cys Ser Lys Lys Thr Glu Ser Tyr Phe Thr Ile Trp Leu Asn Leu Glu
65 70 75 80

Leu Leu Leu Pro Val His His Xaa
85

<210> 171
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals stop translation

<400> 171
Met Ala Cys Glu Thr His Gly Val Leu Val Pro Ala His Leu Ser Gly
1 5 10 15

Leu Ile Thr Cys Leu Leu Ala Phe Trp Val Pro Ala Ser Cys Ile Gln
20 25 30

Arg Cys Ser Gly Ser Pro Leu Pro Leu Xaa
35 40

<210> 172
<211> 48
<212> PRT
<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 172

Met Gln Cys Phe Leu Phe Ser Ile Phe Leu Ile Thr Gly Leu Ala Glu
1 5 10 15

Glu Phe Cys Glu Gln Leu Ser Ile Ser Leu Ala Glu Glu Glu Ile Gln
20 25 30

Leu Ser Ser Thr Val Glu His Phe Cys Met Thr Ala Phe Ser Trp Xaa
35 40 45

<210> 173

<211> 233

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (233)

<223> Xaa equals stop translation

<400> 173

Met Ala Ala Leu Ala Ala Ala Lys Lys Val Trp Ser Ala Arg Arg
1 5 10 15

Leu Leu Val Leu Leu Phe Thr Pro Leu Ala Leu Leu Pro Val Val Phe
20 25 30

Ala Leu Pro Pro Lys Glu Gly Arg Cys Leu Phe Val Ile Leu Leu Met
35 40 45

Ala Val Tyr Trp Cys Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu
50 55 60

Leu Pro Ile Val Leu Phe Pro Phe Met Gly Ile Leu Pro Ser Asn Lys
65 70 75 80

Val Cys Pro Gln Tyr Phe Leu Asp Thr Asn Phe Leu Phe Leu Ser Gly
85 90 95

Leu Ile Met Ala Ser Ala Ile Glu Glu Trp Asn Leu His Arg Arg Ile
100 105 110

Ala Leu Lys Ile Leu Met Leu Val Gly Val Gln Pro Ala Arg Leu Ile
115 120 125

Leu Gly Met Met Val Thr Thr Ser Phe Leu Ser Met Trp Leu Ser Asn
130 135 140

Thr Ala Ser Thr Ala Met Met Leu Pro Ile Ala Asn Ala Ile Leu Lys
145 150 155 160

Ser Leu Phe Gly Gln Lys Glu Val Arg Lys Asp Pro Ser Gln Glu Ser
165 170 175

Glu Glu Asn Thr Gly Ile Glu Pro Asn Thr Phe Leu Ser Glu Glu Arg
180 185 190

Leu Lys Leu Gln Ala Pro Leu Val Ile Arg Leu Gly Gln Ile Thr Glu
195 200 205

Ser Gly Gln Trp Asn Met Ser Gly Asn Asp Val Cys Asn Phe Arg Val
210 215 220

Leu Ser Phe Leu Pro Gly Gly Met Xaa
225 230

<210> 174

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 174

Met Gly Thr Ile Phe Gly Tyr Leu His Cys Val Lys Cys Tyr Val Leu
1 5 10 15

Tyr Phe Ile Phe Ile Leu Ile Thr Ala Val Tyr His Ser Phe Tyr Tyr
20 25 30

Pro His Tyr Arg Gly Lys Ala Leu Ile Ser Gly Thr Xaa
35 40 45

<210> 175

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals stop translation

<400> 175

Met Val Trp Phe Leu Phe Leu Val Phe Ile Phe Leu Lys Val Lys Gly
1 5 10 15

Asp Phe Phe Pro Pro Phe Leu Ile Cys Asn Leu Phe Cys Ile Trp Met
20 25 30

Ile Thr Gly Val Ser His Arg Leu Gln Pro Gln Ile Leu Phe Ser Arg
35 40 45

His Lys His Asn Gln Glu Ile Ile Leu Gln Met Val Ser Phe Ser Cys
50 55 60

Cys Val Phe Phe Pro Met Ile Arg Glu Val Lys Ser Xaa Leu Gly Cys
65 70 75 80

Ile Lys Met Ser Xaa
85

<210> 176

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals stop translation

<400> 176

Met Trp Val Leu Leu Ser Cys Pro Leu Pro Pro Leu Cys Leu Pro Ala
1 5 10 15

Ser Ala Val Pro Gly Gln Cys Leu Gly Gly Gln Trp Ser Gly His Gln
20 25 30

Leu Arg Leu Arg Gly Arg Gly Trp His Cys Arg Cys His Cys Arg Ala
35 40 45

Trp Ala Ala Asp Met Gly Arg Gly Leu His Ser Cys Gln Leu Leu Ser
50 55 60

Arg Xaa
65

<210> 177

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals stop translation

<400> 177

Met Leu Leu Leu Cys Ile Leu Leu Ile Phe Cys Val Val Gly Leu Ser
1 5 10 15

Val Val Gly Arg Arg Val Leu Lys Ser Thr Thr Ile Ile Val. Tyr Leu
20 25 30

Ser Ile Thr Pro Phe Ser Ser Phe Ser Ser Ile Ser His Ile Phe Gln

35

40

45

Leu Leu Ile Gly Ala His Xaa
50 55

<210> 178

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals stop translation

<400> 178

Met Cys Val Xaa Leu Ser Phe Cys Pro Phe Leu Ser Ser Ala Leu Pro
1 5 10 15

Ala Ser His Thr Gln Phe Tyr Met Pro Arg Gly Ala Lys Phe Gly Thr
20 25 30

Phe Thr Leu Gln Ala Ser Val Ser Pro Leu Glu Glu Lys Thr His Ser
35 40 45

Phe Thr His Pro Gly Ile Gly Lys Leu Leu Gly His Gln Asp Pro
50 55 60

Gly Ala Pro Gly Pro Ser Trp Asn Ile Arg Ser Thr Trp Ser Thr Arg
65 70 75 80

Ser Leu Xaa

<210> 179

<211> 330

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 179

Met Ser Pro Leu Ser Ala Ala Arg Ala Ala Leu Arg Val Tyr Ala Val
1 5 10 15

Gly Ala Ala Val Ile Leu Ala Gln Leu Leu Arg Arg Cys Arg Gly Gly
20 25 30

Phe Leu Glu Pro Val Xaa Pro Pro Arg Pro Asp Arg Val Ala Ile Val
35 40 45

Thr Gly Gly Thr Asp Gly Ile Gly Tyr Ser Thr Ala Lys His Leu Ala
50 55 60

Arg Leu Gly Met His Val Ile Ile Ala Gly Asn Asn Asp Ser Lys Ala
65 70 75 80

Lys Gln Val Val Ser Lys Ile Lys Glu Glu Thr Leu Asn Asp Lys Val
85 90 95

Glu Phe Leu Tyr Cys Asp Leu Ala Ser Met Thr Ser Ile Arg Gln Phe
100 105 110

Val Gln Lys Phe Lys Met Lys Lys Ile Pro Leu His Val Leu Ile Asn
115 120 125

Asn Ala Gly Val Met Met Val Pro Gln Arg Lys Thr Arg Asp Gly Phe
130 135 140

Glu Glu His Phe Gly Leu Asn Tyr Leu Gly His Phe Leu Leu Thr Asn
145 150 155 160

Leu Leu Leu Asp Thr Leu Lys Glu Ser Gly Ser Pro Gly His Ser Ala
165 170 175

Arg Val Val Thr Val Ser Ser Ala Thr His Tyr Val Ala Glu Leu Asn
180 185 190

Met Asp Asp Leu Gln Ser Ser Ala Cys Tyr Ser Pro His Ala Ala Tyr
195 200 205

Ala Gln Ser Lys Leu Ala Leu Val Leu Phe Thr Tyr His Leu Gln Arg
210 215 220

Leu Leu Ala Ala Glu Gly Ser His Val Thr Ala Asn Val Val Asp Pro
225 230 235 240

Gly Val Val Asn Thr Asp Xaa Tyr Lys His Val Phe Trp Ala Thr Arg
245 250 255

Leu Ala Lys Lys Leu Leu Gly Trp Leu Leu Phe Lys Thr Pro Asp Glu
260 265 270

Gly Ala Trp Thr Ser Ile Tyr Ala Ala Val Thr Pro Glu Leu Glu Gly
275 280 285

Val Gly Gly Arg Tyr Leu Tyr Asn Glu Lys Glu Thr Lys Ser Leu His
290 295 300

Val Thr Tyr Asn Gln Lys Leu Gln Gln Leu Trp Ser Lys Ser Cys
305 310 315 320

Glu Met Thr Gly Val Leu Asp Val Thr Leu

128

325

330

<210> 180
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals stop translation

<400> 180
Met Ile Ala Cys Gln Tyr Ile Ser Leu Ala Ile Met Leu Ala Phe Val
1 5 10 15

Arg Trp Ala Ala Phe Leu Leu Phe Pro Phe Leu Cys Gly Asp Asn Gly
20 25 30

Gly Asn Ile Gln Gln Lys Tyr Val Xaa
35 40

<210> 181
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals stop translation

<400> 181
Met Ala Asn Ala Met Ala Tyr Leu Ser Ile Phe Leu Cys Gly Ala Ser
1 5 10 15

Ser Ser Pro Cys Asp Cys Ala Leu Leu Val Pro Val Ser Leu Phe Arg
20 25 30

Gly Arg Lys Val Ala Asn Phe Lys Asn Gln Asn Ser Asp Val Thr Ser
35 40 45

Gly Asn Ala Xaa
50

<210> 182
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals stop translation

<400> 182

Met Gln Gln Ile Cys Ser Cys Leu Gly Ala Phe Ala Leu Leu Phe Phe
1 5 10 15

Trp Pro Gly His Phe Thr Ser Thr Phe Ser Ile Phe Tyr Asp Phe Leu
20 25 30

Pro Ile Phe Gly Ser Leu Phe Lys Cys His Pro Ser Lys Arg Pro Ser
35 40 45

Lys Leu Pro Tyr Leu Lys Xaa
50 55

<210> 183

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 183

Met Arg Leu Leu Leu Glu Trp Arg Val Tyr Leu Arg Leu Thr Cys Ala
1 5 10 15

Thr Lys Asp Gly Met Ala Arg Glu Cys Pro Thr Thr Trp Leu Ser Pro
20 25 30

Pro Ala Lys Pro Asp Phe Ala Gln Arg His Ser Val Lys Pro Thr Ala
35 40 45

Leu Gln Gly Gly Arg Trp Ser Arg Leu Gly Ala Ser Pro Xaa
50 55 60

<210> 184

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals stop translation

<400> 184

Met Leu Gly Leu Pro Trp Lys Gly Gly Leu Ser Trp Ala Leu Leu Leu
1 5 10 15

Leu Leu Leu Gly Ser Gln Ile Leu Leu Ile Tyr Ala Trp His Phe His
20 25 30

Glu Gln Arg Asp Cys Asp Glu His Asn Val Met Ala Arg Tyr Leu Pro
35 40 45

Ala Thr Val Glu Phe Ala Val His Thr Phe Asn Gln Gln Ser Lys Asp
50 55 60

Tyr Tyr Ala Tyr Arg Leu Gly His Ile Leu Asn Ser Trp Lys Glu Gln
65 70 75 80

Val Glu Ser Lys Thr Val Phe Ser Met Glu Leu Leu Leu Gly Arg Thr
85 90 95

Arg Cys Gly Lys Phe Glu Asp Asp Ile Asp Asn Cys His Phe Gln Glu
100 105 110

Ser Thr Glu Leu Asn Asn Thr Phe Thr Cys Phe Phe Thr Ile Ser Thr
115 120 125

Arg Pro Trp Met Thr Gln Phe Ser Leu Leu Asn Lys Thr Cys Leu Glu
130 135 140

Gly Phe His Xaa
145

<210> 185

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals stop translation

<400> 185

Met Arg Leu Leu Cys Gly Leu Trp Leu Trp Leu Ser Leu Leu Lys Val
1 5 10 15

Leu Gln Ala Gln Thr Pro Thr Pro Leu Pro Leu Pro Pro Pro Met Gln
20 25 30

Ser Phe Gln Gly Asn Gln Phe Gln Gly Glu Trp Phe Val Leu Gly Leu
35 40 45

Ala Gly Asn Ser Phe Arg Pro Glu His Arg Ala Leu Leu Asn Ala Phe
50 55 60

Thr Ala Thr Phe Glu Leu Ser Asp Asp Gly Arg Phe Glu Val Trp Asn
65 70 75 80

Ala Met Thr Arg Gly Gln His Cys Asp Thr Trp Ser Tyr Val Leu Ile
85 90 95

Pro Ala Ala Gln Pro Gly Gln Phe Thr Val Asp His Gly Val Gly Arg
100 105 110

Ser Trp Leu Leu Pro Pro Gly Thr Leu Asp Gln Phe Ile Cys Leu Gly
115 120 125

Arg Ala Gln Gly Leu Ser Asp Asp Asn Ile Val Phe Pro Asp Val Thr
130 135 140

Gly Xaa Ala Leu Asp Leu Xaa Ser Leu Pro Trp Val Ala Ala Pro Ala
145 150 155 160

Xaa

<210> 186

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals stop translation

<400> 186

Met Met Leu Pro Gln Trp Leu Leu Leu Phe Leu Leu Phe Phe Phe
1 5 10 15

Leu Phe Leu Leu Thr Arg Gly Ser Leu Ser Pro Thr Lys Tyr Asn Leu
20 25 30

Leu Glu Leu Lys Glu Ser Cys Ile Arg Asn Gln Asp Cys Glu Thr Gly
35 40 45

Cys Cys Gln Arg Ala Pro Asp Asn Cys Glu Ser His Cys Ala Glu Lys
50 55 60

Gly Ser Glu Gly Ser Leu Cys Gln Thr Gln Val Phe Phe Gly Gln Tyr
65 70 75 80

Arg Ala Cys Pro Cys Leu Arg Asn Leu Thr Cys Ile Tyr Ser Lys Asn
85 90 95

Glu Lys Trp Leu Ser Ile Ala Tyr Gly Arg Cys Gln Lys Ile Gly Arg
100 105 110

Gln Lys Leu Ala Lys Lys Met Phe Phe Xaa
115 120

<210> 187

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals stop translation

<400> 187

Met Thr Ser Asn Phe Pro Phe Cys Thr Leu Ile Leu Gly Ile Ala Gln
1 5 10 15Ala Gln Ala Cys Pro Gly Cys Pro Gly Asp Trp Pro Gly Leu Gly Ser
20 25 30Gly Val Gly Glu Gly Leu His His Ile Arg Thr Cys Arg Thr Pro Ile
35 40 45Pro Cys Ser Pro Pro Ala Pro Ala Ala Cys Leu Gly Ser Gly His
50 55 60Ala Arg Leu Pro Cys Val Leu Arg Leu Trp Pro Val Pro Ala Asn Leu
65 70 75 80Ser Ser Pro Phe Arg Leu Glu Ala Leu His Cys Ser Phe Trp Ser Ser
85 90 95Pro Leu Leu Pro Ala Pro His Leu Ala Phe Phe Gly Phe Arg Asp Leu
100 105 110Leu Thr Asp Phe Leu Leu Ala Ala Cys Leu Leu Thr Phe Gln Lys Thr
115 120 125Pro Leu Glu Leu Pro Met Ala Val Val His Leu Leu Val Ala Thr Pro
130 135 140Cys Tyr Gln Met Leu Asp Asn Leu Pro Leu Pro Ser Ala Ala Ala Asn
145 150 155 160

Trp Cys Xaa

<210> 188

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 188

Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys Leu Ser
1 5 10 15Leu Leu Gln Gly Phe Arg Leu Leu Leu Cys Val Cys Pro Gly Trp
20 25 30Leu Ser Gly Trp Met Gly Gly Gin Lys Gly Ser Pro Arg Ile Val Asp
35 40 45

Ile Gly Xaa

50

<210> 189
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals stop translation

<400> 189
Met Tyr Leu Tyr Leu Gly Val Phe Phe His Leu Ile Tyr Pro Gly Ala
1 5 10 15

Leu Ser Ile Thr Thr Leu Gly Lys His Ser His Pro Phe Phe Thr Ala
20 25 30

Glu Gln Asn Ser Thr Val Trp Met Glu His Thr Leu Phe His Gln Ser
35 40 45

Pro Val Ala Ser His Leu Val Cys Phe Gln Ser Phe Ala Phe Ser Glu
50 55 60

Xaa
65

<210> 190
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals stop translation

<400> 190
Met Thr Leu Ser Leu Gln Leu Ala Glu Leu Val His Phe Val Cys Ala
1 5 10 15

Phe Gln Ser Gln Trp Thr Gly Val Tyr Pro Met Met Pro Pro Leu Lys
20 25 30

Pro Thr Glu Pro Leu Cys Phe Ala Cys Val Pro Cys Arg Val Xaa
35 40 45

<210> 191
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (144)

<223> Xaa equals stop translation

<400> 191

Met Ser Pro Phe His Leu Leu Gly Leu Lys Val Phe Leu Thr Trp Ala
1 5 10 15

Leu Thr Leu Ala Gln Ile Cys Leu Tyr Phe Phe Glu Val Gln Pro Leu
20 25 30

Gly Leu Leu Ala Leu Asn Phe Phe Cys Thr Ala Thr Ala Gly Leu Lys
35 40 45

Glu Leu Cys Met His Pro Pro Ser Leu Ala Phe Thr Pro Glu Phe His
50 55 60

Thr Ser Leu Ser Pro Leu Ala Ile Pro Ser Phe Cys Gly Thr Ser Val
65 70 75 80

Ser Leu Ser Asn Ser His Thr Ile Pro Leu Ser Leu Tyr Leu Pro Phe
85 90 95

Pro Ser Lys Ser Arg Met Pro Asp Thr Leu His Leu Leu Val His Ser
100 105 110

Leu Pro Leu Val His Ser Gln Val Leu Pro Val Lys Asp Val Thr Ile
115 120 125

Glu Trp Pro Leu Cys Gln Arg Cys Leu Gly Ser Thr Cys His Gln Xaa
130 135 140

<210> 192

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 192

Met Phe Cys Phe Ser Ser Ile Phe Cys Ser His Glu His Thr His Leu
1 5 10 15

Pro Gly Thr Phe Trp Leu Phe Leu Phe Leu Phe Leu Ile Leu Pro Pro
20 25 30

Ser Cys Pro Cys Phe Leu Pro Phe Ser Leu Ala Ile Glu Thr Val Arg
35 40 45

Trp Pro Cys Trp His His Pro Thr Ser Phe Glu Leu Cys Tyr Pro Gly
50 55 60

Thr Ser Ile Tyr Tyr Ala Ser Arg Gly Gly Pro Xaa Pro Asn Ser Glu
65 70 75 80

Xaa

<210> 193
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals stop translation

<400> 193
Met Thr Tyr Leu Phe Cys Ser Ser Ile Ser Leu Leu Leu Lys Val
1 5 10 15

His Ser Ser Gly His Gln Asp Ile Arg Lys Ala Lys Ser Lys Val Pro
20 25 30

Arg Leu Leu Ile Ile Gln Cys Pro Gln Gln Arg Glu Xaa
35 40 45

<210> 194
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals stop translation

<400> 194
Met Pro Thr Ile Trp Val Lys Leu Cys Leu Leu Gln Val Cys His Gly
1 5 10 15

Leu Phe Pro Leu Leu Lys His Trp Ser Gln Pro Met Pro Leu Cys Val
20 25 30

Thr Leu Ala Pro Val Ser Tyr Trp Leu Xaa
35 40

<210> 195
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (260)

<223> Xaa equals stop translation

<400> 195

Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu Leu Phe
1 5 10 15Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe Asp Arg Ala
20 25 30Val Ala Ser Asp Cys Gln Arg Cys Cys Asp Ser Glu Asp Pro Leu Asp
35 40 45Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro His Ala Leu
50 55 60Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys Gly Asp Lys
65 70 75 80Gly Asp Pro Gly Pro Met Gly Leu Pro Gly Tyr Met Gly Arg Glu Gly
85 90 95Pro Gln Gly Glu Pro Gly Pro Gln Gly Ser Lys Gly Asp Lys Gly Glu
100 105 110Met Gly Ser Pro Gly Ala Pro Cys Gln Lys Arg Phe Phe Ala Phe Ser
115 120 125Val Gly Arg Lys Thr Ala Leu His Ser Gly Glu Asp Phe Gln Thr Leu
130 135 140Leu Phe Glu Arg Val Phe Val Asn Leu Asp Gly Cys Phe Asp Met Ala
145 150 155 160Thr Gly Gln Phe Ala Ala Pro Leu Arg Gly Ile Tyr Phe Phe Ser Leu
165 170 175Asn Val His Ser Trp Asn Tyr Lys Glu Thr Tyr Val His Ile Met His
180 185 190Asn Gln Lys Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser Glu Arg Ser
195 200 205Ile Met Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr Gly Asp Arg
210 215 220Val Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala Ile Tyr Ser
225 230 235 240Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu Ile Lys Ala
245 250 255Glu Asp Asp Xaa
260

<210> 196

<211> 117

<212> PRT

<213> Homo sapiens

<400> 196

Met Leu Gly His Cys Cys Tyr Phe Trp Gln Val Trp Pro Ala Ser Glu
1 5 10 15

Ala Leu Ala Ala Gly Pro Thr Pro Ser Thr Gly Ser Ser Ser Pro Ser
20 25 30

Trp Lys Gln His Ile Gly Thr Ser Leu Gln Lys Thr Arg Gly Ser Leu
35 40 45

Pro Thr Thr Thr Leu Thr Ser Gly Ala Gly Gln Ser Thr Ser Thr Gly
50 55 60

Lys Asn Pro Ala Ala Gly Arg Ser Leu Glu Gly Ala Leu Pro Ala Gly
65 70 75 80

Val Trp Pro Cys Phe Ala Gin Ser Pro Cys Thr Gly Gly Gln Gln Thr
85 90 95

Pro Ser Ser Thr Gly Leu Arg Ser Cys Leu Val Arg Ser Pro Ala Thr
100 105 110

Trp Trp Arg Thr Pro
115

<210> 197

<211> 698

<212> PRT

<213> Homo sapiens

<400> 197

Met Leu Pro Ala Arg Leu Pro Phe Arg Leu Leu Ser Leu Phe Leu Arg
1 5 10 15

Gly Ser Ala Pro Thr Ala Ala Arg His Gly Leu Arg Glu Pro Leu Leu
20 25 30

Glu Arg Arg Cys Ala Ala Ala Ser Ser Phe Gln His Ser Ser Ser Leu
35 40 45

Gly Arg Glu Leu Pro Tyr Asp Pro Val Asp Thr Glu Gly Phe Gly Glu
50 55 60

Gly Gly Asp Met Gln Glu Arg Phe Leu Phe Pro Glu Tyr Ile Leu Asp
65 70 75 80

Pro Glu Pro Gln Pro Thr Arg Glu Lys Gln Leu Gln Glu Leu Gln Gln
85 90 95

Gln Gln Glu Glu Glu Arg Gln Gln Arg Arg Glu Glu Arg
100 105 110

Arg Gln Gln Asn Leu Arg Ala Arg Ser Arg Glu His Pro Val Val Gly
115 120 125

His Pro Asp Pro Ala Leu Pro Pro Ser Gly Val Asn Cys Ser Gly Cys

130 135 140

Gly Ala Glu Leu His Cys Gln Asp Ala Gly Val Pro Gly Tyr Leu Pro
145 150 155 160

Arg Glu Lys Phe Leu Arg Thr Ala Glu Ala Asp Gly Gly Leu Ala Arg
165 170 175

Thr Val Cys Gln Arg Cys Trp Leu Leu Ser His His Arg Arg Ala Leu
180 185 190

Arg Leu Gln Val Ser Arg Glu Gln Tyr Leu Glu Leu Val Ser Ala Ala
195 200 205

Leu Arg Arg Pro Gly Pro Ser Leu Val Leu Tyr Met Val Asp Leu Leu
210 215 220

Asp Leu Pro Asp Ala Leu Leu Pro Asp Leu Pro Ala Leu Val Gly Pro
225 230 235 240

Lys Gln Leu Ile Val Leu Gly Asn Lys Val Asp Leu Leu Pro Gln Asp
245 250 255

Ala Pro Gly Tyr Arg Gln Arg Leu Arg Glu Arg Leu Trp Glu Asp Cys
260 265 270

Ala Arg Ala Gly Leu Leu Ala Pro Gly His Gln Gly Pro Gln Arg
275 280 285

Pro Val Lys Asp Glu Pro Gln Asp Gly Glu Asn Pro Asn Pro Pro Asn
290 295 300

Trp Ser Arg Thr Val Val Arg Asp Val Arg Leu Ile Ser Ala Lys Thr
305 310 315 320

Gly Tyr Gly Val Glu Glu Leu Ile Ser Ala Leu Gln Arg Ser Trp Arg
325 330 335

Tyr Arg Gly Asp Val Tyr Leu Val Gly Ala Thr Asn Ala Gly Lys Ser
340 345 350

Thr Leu Phe Asn Thr Leu Leu Glu Ser Asp Tyr Cys Thr Ala Lys Gly
355 360 365

Ser Asp Ala Ile Asp Arg Ala Thr Ile Ser Pro Trp Pro Gly Thr Thr
370 375 380

Leu Asn Leu Leu Lys Phe Pro Ile Cys Asn Pro Thr Pro Tyr Arg Met
385 390 395 400

Phe Lys Arg His Gln Arg Leu Lys Lys Asp Ser Thr Gln Ala Glu Glu
405 410 415

Asp Leu Ser Glu Gln Glu Gln Asn Gln Leu Asn Val Leu Lys Lys His
420 425 430

Gly Tyr Val Val Gly Arg Val Gly Arg Thr Phe Leu Tyr Ser Glu Glu
435 440 445

Gln Lys Asp Asn Ile Pro Phe Glu Phe Asp Ala Asp Ser Leu Ala Phe
450 455 460

Asp Met Glu Asn Asp Pro Val Met Gly Thr His Lys Ser Thr Lys Gin
465 470 475 480

Val Glu Leu Thr Ala Gln Asp Val Lys Asp Ala His Trp Phe Tyr Asp
485 490 495

Thr Pro Gly Ile Thr Lys Glu Asn Cys Ile Leu Asn Leu Leu Thr Glu
500 505 510

Lys Glu Val Asn Ile Val Leu Pro Thr Gln Ser Ile Val Pro Arg Thr
515 520 525

Phe Val Leu Lys Pro Gly Met Val Leu Phe Leu Gly Ala Ile Gly Arg
530 535 540

Ile Asp Phe Leu Gln Gly Asn Gln Ser Ala Trp Phe Thr Val Val Ala
545 550 555 560

Ser Asn Ile Leu Pro Val His Ile Thr Ser Leu Asp Arg Ala Asp Ala
565 570 575

Leu Tyr Gln Lys His Ala Gly His Thr Leu Leu Gln Ile Pro Met Gly
580 585 590

Gly Lys Glu Arg Met Ala Gly Phe Pro Pro Leu Val Ala Glu Asp Ile
595 600 605

Met Leu Lys Glu Gly Leu Gly Ala Ser Glu Ala Val Ala Asp Ile Lys
610 615 620

Phe Ser Ser Ala Gly Trp Val Ser Val Thr Pro Asn Phe Lys Asp Arg
625 630 635 640

Leu His Leu Arg Gly Tyr Thr Pro Glu Gly Thr Val Leu Thr Val Arg
645 650 655

Pro Pro Leu Leu Pro Tyr Ile Val Asn Ile Lys Gly Gln Arg Ile Lys
660 665 670

Lys Ser Val Ala Tyr Lys Thr Lys Lys Pro Pro Ser Leu Met Tyr Asn
675 680 685

Val Arg Lys Lys Lys Gly Lys Ile Asn Val
690 695

<210> 198
<211> 348
<212> PRT
<213> Homo sapiens

<400> 198
Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu
1 5 10 15

Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His

20

25

30

Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly
35 40 45

Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val
50 55 60

Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr
65 70 75 80

Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met
85 90 95

Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp
100 105 110

Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln
115 120 125

Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp
130 135 140

Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu
145 150 155 160

Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys
165 170 175

Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys
180 185 190

Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu
195 200 205

Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala
210 215 220

Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu Lys Glu Thr
225 230 235 240

Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu
245 250 255

Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His Lys Tyr Ala Thr
260 265 270

Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr
275 280 285

Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro
290 295 300

Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg
305 310 315 320

Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser
325 330 335

Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly
340 345

<210> 199

<211> 401

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 199

Met Met Gly Leu Gly Asn Gly Arg Arg Ser Met Lys Ser Pro Pro Leu
1 5 10 15

Val Leu Ala Ala Leu Val Ala Cys Ile Ile Val Leu Gly Phe Asn Tyr
20 25 30

Trp Ile Ala Ser Ser Arg Ser Val Asp Leu Gln Thr Arg Ile Met Glu
35 40 45

Leu Glu Gly Arg Val Arg Arg Ala Ala Glu Arg Gly Ala Val Glu
50 55 60

Leu Lys Lys Asn Glu Phe Gln Gly Glu Leu Glu Lys Gln Arg Glu Gln
65 70 75 80

Leu Asp Lys Ile Gln Ser Ser His Asn Phe Gln Leu Glu Ser Val Asn
85 90 95

Lys Leu Tyr Gln Asp Glu Lys Ala Val Leu Val Asn Asn Ile Thr Thr
100 105 110

Gly Glu Arg Leu Ile Arg Val Leu Gln Asp Gln Leu Lys Thr Leu Gln
115 120 125

Arg Asn Tyr Gly Arg Leu Gln Gln Asp Val Leu Gln Phe Gln Lys Asn
130 135 140

Gln Thr Asn Leu Glu Arg Lys Phe Ser Tyr Asp Leu Ser Gln Cys Ile
145 150 155 160

Asn Gln Met Lys Glu Val Lys Glu Gln Cys Glu Glu Arg Ile Glu Glu
165 170 175

Val Thr Lys Lys Gly Asn Glu Ala Val Ala Ser Arg Asp Leu Ser Glu
180 185 190

Asn Asn Asp Gln Arg Gln Gln Leu Gln Ala Leu Ser Glu Pro Gln Pro
195 200 205

Arg Leu Gln Ala Ala Gly Leu Pro His Thr Glu Val Pro Gln Gly Lys
210 215 220

Gly Asn Val Leu Gly Asn Ser Lys Ser Gln Thr Pro Ala Pro Ser Ser
225 230 235 240

Glu Val Val Leu Asp Ser Lys Arg Gln Val Glu Lys Glu Glu Thr Asn
245 250 255

Glu Ile Gln Val Val Asn Glu Glu Pro Gln Arg Asp Arg Leu Pro Gln
260 265 270

Glu Pro Gly Arg Glu Gln Val Val Glu Asp Arg Pro Val Gly Gly Arg
275 280 285

Gly Phe Gly Gly Ala Gly Glu Leu Gly Gln Thr Pro Gln Val Gln Ala
290 295 300

Ala Leu Xaa Val Ser Gln Glu Asn Pro Glu Met Glu Gly Pro Glu Arg
305 310 315 320

Asp Gln Leu Val Ile Pro Asp Gly Gln Glu Glu Glu Gln Glu Ala Ala
325 330 335

Gly Glu Gly Arg Asn Gln Gln Lys Leu Arg Gly Glu Asp Asp Tyr Asn
340 345 350

Met Asp Glu Asn Glu Ala Glu Ser Glu Thr Asp Lys Gln Ala Ala Leu
355 360 365

Ala Gly Asn Asp Arg Asn Ile Asp Val Phe Asn Val Glu Asp Gln Lys
370 375 380

Arg Asp Thr Ile Asn Leu Leu Asp Gln Arg Glu Lys Arg Asn His Thr
385 390 395 400

Leu

<210> 200
<211> 324
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 200
Met Glu Xaa Ala Lys Val Tyr Val Ala Lys Val Asp Cys Thr Ala His
1 5 10 15

Ser Asp Val Cys Ser Ala Gln Gly Val Arg Gly Tyr Pro Thr Leu Lys
20 25 30

Leu Phe Lys Pro Gly Gln Glu Ala Val Lys Tyr Gln Gly Pro Arg Asp
35 40 45

Phe Gln Thr Leu Glu Asn Trp Met Leu Gln Thr Leu Asn Glu Glu Pro
50 55 60

Val Thr Pro Glu Pro Glu Val Glu Pro Pro Ser Ala Pro Glu Leu Lys

65	70	75	80												
Gln	Gly	Leu	Tyr	Glu	Leu	Ser	Ala	Ser	Asn	Phe	Glu	Leu	His	Val	Ala
				85					90				95		
Gln	Gly	Asp	His	Phe	Ile	Lys	Phe	Phe	Ala	Pro	Trp	Cys	Gly	His	Cys
				100				105				110			
Lys	Ala	Leu	Ala	Pro	Thr	Trp	Glu	Gln	Leu	Ala	Leu	Gly	Leu	Glu	His
				115				120				125			
Ser	Glu	Thr	Val	Lys	Ile	Gly	Lys	Val	Asp	Cys	Thr	Gln	His	Tyr	Glu
	130				135					140					
Leu	Cys	Ser	Gly	Asn	Gln	Val	Arg	Gly	Tyr	Pro	Thr	Leu	Leu	Trp	Phe
	145				150				155				160		
Arg	Asp	Gly	Lys	Lys	Val	Asp	Gln	Tyr	Lys	Gly	Lys	Arg	Asp	Leu	Glu
	165				170				175						
Ser	Leu	Arg	Glu	Tyr	Val	Glu	Ser	Gln	Leu	Gln	Arg	Thr	Glu	Thr	Gly
	180				185					190					
Ala	Thr	Glu	Thr	Val	Thr	Pro	Ser	Glu	Ala	Pro	Val	Leu	Ala	Ala	Glu
	195				200					205					
Pro	Glu	Ala	Asp	Lys	Gly	Thr	Val	Leu	Ala	Leu	Thr	Glu	Asn	Asn	Phe
	210			215						220					
Asp	Asp	Thr	Ile	Ala	Glu	Gly	Ile	Thr	Phe	Ile	Lys	Phe	Tyr	Ala	Pro
	225			230				235			240				
Trp	Cys	Gly	His	Cys	Lys	Thr	Leu	Ala	Pro	Thr	Trp	Glu	Leu	Ser	
				245			250			255					
Lys	Lys	Glu	Phe	Pro	Gly	Leu	Ala	Gly	Val	Lys	Ile	Ala	Glu	Val	Asp
	260			265						270					
Cys	Thr	Ala	Glu	Arg	Asn	Ile	Cys	Ser	Lys	Tyr	Ser	Val	Arg	Gly	Tyr
	275				280					285					
Pro	Thr	Leu	Leu	Leu	Phe	Arg	Gly	Gly	Lys	Lys	Val	Ser	Glu	His	Ser
	290				295					300					
Gly	Gly	Arg	Asp	Leu	Asp	Ser	Leu	His	Arg	Phe	Val	Leu	Ser	Gln	Ala
	305				310					315			320		
Lys Asp Glu Leu .															

<210> 201

<211> 90

<212> PRT

<213> Homo sapiens

<400> 201

Met Ala Leu Phe Ser Cys Leu Leu Leu Lys Gln Ser Asp Gly Ala
1 5 10 15

Ser Pro Val Leu Arg Ala Leu Ala Ala Ser Cys Leu Ala Ser Pro Ala
20 25 30

Gly Cys Cys Gly Thr Arg Lys Ala Leu Asn Gly Asn Val Gly Glu Lys
35 40 45

Val Gly Phe Thr Phe Met Ser Phe Gln Gly Cys Asp Pro Ser Ser Pro
50 55 60

Gly Cys Leu Cys Cys Ser Leu Leu Pro Ser Asn Ser Gln Leu Val Phe
65 70 75 80

Ile Ser Phe Leu Val Leu Ser Gly Leu Ala
85 90

<210> 202

<211> 243

<212> PRT

<213> Homo sapiens

<400> 202

Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu Arg Gly Leu
1 5 10 15

Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser Ala Ser Glu
20 25 30

Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg Glu Val Val
35 40 45

Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro Gly
50 55 60

Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly Ile
65 70 75 80

Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg Glu
85 90 95

Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp Ser
100 105 110

Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe
115 120 125

Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser
130 135 140

Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Glu Arg Trp Tyr Phe Thr
145 150 155 160

Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile
165 170 175

Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His
180 185 190

Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu
195 200 205

Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly
210 215 220

Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Glu Glu
225 230 235 240

Leu Pro Lys

<210> 203

<211> 75

<212> PRT

<213> Homo sapiens

<400> 203

Met Ala Gly Gln Glu Asp Pro Val Gln Arg Glu Ile His Gln Asp Trp
1 5 10 15

Ala Asn Arg Glu Tyr Ile Glu Ile Ile Thr Ser Ser Ile Lys Lys Ile
20 25 30

Ala Asp Phe Leu Asn Ser Phe Asp Met Ser Cys Arg Ser Arg Leu Ala
35 40 45

Thr Leu Asn Glu Lys Leu Thr Ala Leu Glu Arg Arg Ile Glu Tyr Ile
50 55 60

Glu Ala Arg Val Thr Lys Gly Glu Thr Leu Thr
65 70 75

<210> 204

<211> 248

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 204

Met Thr Ser Gln Pro Val Pro Asn Glu Thr Ile Ile Val Leu Pro Ser
1 5 10 15

Asn Val Ile Asn Phe Ser Gln Ala Glu Lys Pro Glu Pro Thr Asn Gln
20 25 30

Gly Gln Asp Ser Leu Lys Lys His Leu His Ala Glu Ile Lys Val Ile
35 40 45

Gly Thr Ile Gln Ile Leu Cys Gly Met Met Val Leu Ser Leu Gly Ile
50 55 60

Ile Leu Ala Ser Ala Ser Phe Ser Pro Asn Phe Thr Gln Val Thr Ser

65	70	75	80
Thr Leu Leu Asn Ser Ala Tyr Pro Phe Ile Gly Pro Phe Phe Ile			
85	90	95	
Ile Ser Gly Ser Leu Ser Ile Ala Thr Glu Lys Arg Leu Thr Lys Leu			
100	105	110	
Leu Val His Ser Ser Leu Val Gly Ser Ile Leu Ser Ala Leu Ser Ala			
115	120	125	
Leu Val Gly Phe Ile Ile Leu Ser Val Lys Gln Ala Thr Leu Asn Pro			
130	135	140	
Ala Ser Leu Gln Cys Glu Leu Asp Lys Asn Asn Ile Pro Thr Arg Ser			
145	150	155	160
Tyr Val Ser Tyr Phe Tyr His Asp Ser Leu Tyr Thr Thr Asp Cys Tyr			
165	170	175	
Thr Ala Lys Ala Ser Leu Ala Gly Xaa Leu Ser Leu Met Leu Ile Cys			
180	185	190	
Thr Leu Leu Glu Phe Cys Leu Ala Val Leu Thr Ala Val Leu Arg Trp			
195	200	205	
Lys Gln Ala Tyr Ser Asp Phe Pro Gly Ser Val Leu Phe Leu Pro His			
210	215	220	
Ser Tyr Ile Gly Asn Ser Gly Met Ser Ser Lys Met Thr His Asp Cys			
225	230	235	240
Gly Tyr Glu Glu Leu Leu Thr Ser			
245			

<210> 205

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 205

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
20 25 30Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
35 40 45Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
65 70 75 80

Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
85 90 95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
100 105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys
165

<210> 206

<211> 218

<212> PRT

<213> Homo sapiens

<400> 206

Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val
1 5 10 15Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
20 25 30Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
35 40 45Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly His Met Gln Cys
50 55 60Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr Glu Val Gln Ala Ala
65 70 75 80Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala Phe Val Ala Leu Phe
85 90 95Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys Val Ala Pro Gly Pro
100 105 110Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val Leu Tyr Leu Phe Cys
115 120 125Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe Ala Asn Ile Val Val
130 135 140Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser Gln Lys Tyr Glu Leu
145 150 155 160

Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr Ala Leu Leu Met Val

165

170

175

Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val Cys Thr Gly Arg Pro
180 185 190

Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro Arg Arg Pro Thr Ala
195 200 205

Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val
210 215

<210> 207

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals stop translation

<400> 207

Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly
1 5 10 15

Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg
20 25 30

Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Arg Met Leu
35 40 45

Arg Gly Glu Leu Ser Cys Ala Cys Tyr Arg Pro His Val Gln Ala Leu
50 55 60

Gln Leu Gly Gly Cys Thr Cys Phe Xaa
65 70

<210> 208

<211> 348

<212> PRT

<213> Homo sapiens

<400> 208

Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Ile Leu
1 5 10 15

Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
20 25 30

Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
35 40 45

Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val
50 55 60

Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala
65 70 75 80

Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Thr
85 90 95

Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys
100 105 110

Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile
115 120 125

Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Thr
130 135 140

Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro
145 150 155 160

Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro
165 170 175

Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala
180 185 190

Val Ala Gly Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp
195 200 205

Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys
210 215 220

Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Asn Cys His
225 230 235 240

Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro
245 250 255

Val Pro Gly Ala Lys Lys Ser Ala Lys Leu Tyr Ile Pro Tyr Ile Ile
260 265 270

Leu Thr Ile Ile Ile Leu Thr Ile Val Gly Phe Ile Trp Leu Leu Lys
275 280 285

Val Asn Gly Cys Arg Lys Tyr Lys Leu Asn Lys Thr Glu Ser Thr Pro
290 295 300

Val Val Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys
305 310 315 320

Asn Asn Pro Leu Tyr Asp Thr Thr Asn Lys Val Lys Ala Ser Glu Ala
325 330 335

Leu Gln Ser Glu Val Asp Thr Asp Leu His Thr Leu
340 345

<210> 209

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
<222> (73)
<223> Xaa equals stop translation

<400> 209
Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Phe
1 5 10 15

Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile
20 25 30

Ile Ser Cys Leu Leu Leu Ser Lys Cys Phe Glu Gly Leu Glu Leu Met
35 40 45

Cys Glu His Leu Tyr Gln Leu Ser Gln Leu His Val Leu His His Ile
50 55 60

Phe Ser Tyr Leu Leu Cys Thr Pro Xaa
65 70

<210> 210
<211> 608
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (265)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (597)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 210
Met Val Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile
1 5 10 15

Leu His Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser
20 25 30

Asn Arg Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp
35 40 45

Ser Ile Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly
50 55 60

Gly Thr Asp Ile Asn Gly Val Leu Gln Arg Ala Ile Arg Leu Leu Asn
65 70 75 80

Lys Tyr Val Ala His Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile
85 90 95

Val Phe Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu
100 105 110

Lys Ile Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile

115	120	125
Phe Thr Ile Gly Ile Gly Asn Asp Val Asp	Phe Arg Leu Leu Glu Lys	
130	135	140
Leu Ser Leu Glu Asn Cys Gly Ieu Thr Arg Arg Val His Glu Glu Glu		
145	150	155
160		
Asp Ala Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro		
165	170	175
Leu Leu Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln		
180	185	190
Ala Thr Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile		
195	200	205
Ile Ala Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu		
210	215	220
Val Thr Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val		
225	230	235
240		
Pro Val Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg		
245	250	255
Pro Gly Gly Asp Gly Glu Gly Asp Xaa Asn His Ile Glu Arg Leu Trp		
260	265	270
Ser Tyr Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp		
275	280	285
Asp Glu Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala		
290	295	300
Val Ser Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly		
305	310	315
320		
Pro Val Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala		
325	330	335
Ala Met Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr		
340	345	350
Gln Pro Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile		
355	360	365
Ser Lys Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro		
370	375	380
Leu Ser Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp		
385	390	395
400		
Ile Leu Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn		
405	410	415
Gly Glu Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln		
420	425	430

Arg Thr Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg
435 440 445

Ser Tyr Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp
450 455 460

Arg Leu Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly
465 470 475 480

Leu Glu Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln
485 490 495

Gly Ser Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala
500 505 510

Pro Phe Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly
515 520 525

Leu Ser Ser Asn Cys His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp
530 535 540

Ala Arg Leu Thr Glu Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His
545 550 555 560

Pro Leu Leu Leu Gln Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val
565 570 575

Lys Gly His Gln Val Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn
580 585 590

Gly Glu Glu Gln Xaa Asp Cys Trp Phe Ala Arg Asn Met Pro Pro Asn
595 600 605

<210> 211
<211> 252
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (252)
<223> Xaa equals stop translation

<400> 211
Met Ala Pro Ala Ser Arg Leu Leu Ala Leu Trp Ala Leu Ala Ala Val
1 5 10 15

Ala Leu Pro Gly Ser Gly Ala Glu Gly Asp Gly Gly Trp Arg Pro Gly
20 25 30

Gly Pro Gly Ala Val Ala Glu Glu Glu Arg Cys Thr Val Glu Arg Arg
35 40 45

Ala Asp Leu Thr Tyr Ala Glu Phe Val Gln Gln Tyr Ala Phe Val Arg
50 55 60

Pro Val Ile Leu Gln Gly Leu Thr Asp Asn Ser Arg Phe Arg Ala Leu
 65 70 75 80

Cys Ser Arg Asp Arg Leu Leu Ala Ser Phe Gly Asp Arg Val Val Arg
 85 90 95

Leu Ser Thr Ala Asn Thr Tyr Ser Tyr His Lys Val Asp Leu Pro Phe
 100 105 110

Gln Glu Tyr Val Glu Gln Leu Leu His Pro Gln Asp Pro Thr Ser Leu
 115 120 125

Gly Asn Asp Thr Leu Tyr Phe Phe Gly Asp Asn Asn Phe Thr Glu Trp
 130 135 140

Ala Ser Leu Phe Arg His Tyr Ser Pro Pro Pro Phe Gly Leu Leu Gly
 145 150 155 160

Thr Ala Pro Ala Tyr Ser Phe Gly Ile Ala Gly Ala Gly Ser Gly Val
 165 170 175

Pro Phe His Trp His Gly Pro Gly Tyr Ser Glu Val Ile Tyr Gly Arg
 180 185 190

Lys Arg Trp Phe Leu Tyr Pro Pro Glu Lys Thr Pro Glu Phe His Pro
 195 200 205

Asn Lys Thr Thr Leu Ala Trp Leu Arg Asp Thr Tyr Pro Ala Cys Thr
 210 215 220

Val Cys Thr Ala Leu Glu Cys Thr Ile Arg Ala Gly Glu Val Leu Thr
 225 230 235 240

Ser Arg Pro Leu Val Ala Cys Tyr Ala Gln Pro Xaa
 245 250

<210> 212

<211> 226

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (226)

<223> Xaa equals stop translation

<400> 212

Met Lys Glu Ile Pro Ala Leu Leu His Leu Pro Val Leu Ile Ile Met
 1 5 10 15

Ala Leu Ala Ile Leu Ser Phe Cys Tyr Gly Ala Gly Lys Ser Val His
 20 25 30

Val Leu Arg His Ile Gly Gly Pro Glu Arg Glu Pro Pro Gln Ala Leu
 35 40 45

Arg Pro Arg Asp Arg Arg Gln Glu Glu Ile Asp Tyr Arg Pro Asp

50 55 60
 Gly Gly Ala Gly Asp Ala Asp Phe His Tyr Arg Gly Gln Met Gly Pro
 65 70 75 80
 Thr Glu Gln Gly Pro Tyr Ala Lys Thr Tyr Glu Gly Arg Arg Glu Ile
 85 90 95
 Leu Arg Glu Arg Asp Val Asp Leu Arg Phe Gln Thr Gly Asn Lys Ser
 100 105 110
 Pro Glu Val Leu Arg Ala Phe Asp Val Pro Asp Ala Glu Ala Arg Glu
 115 120 125
 His Pro Thr Val Val Pro Ser His Lys Ser Pro Val Leu Asp Thr Lys
 130 135 140
 Pro Lys Glu Thr Gly Gly Ile Leu Gly Glu Gly Thr Pro Lys Glu Ser
 145 150 155 160
 Ser Thr Glu Ser Ser Gln Ser Ala Lys Pro Val Ser Gly Gln Asp Thr
 165 170 175
 Ser Gly Asn Thr Glu Gly Ser Pro Ala Ala Glu Lys Ala Gln Leu Lys
 180 185 190
 Ser Glu Ala Ala Gly Ser Pro Asp Gln Gly Ser Thr Tyr Ser Pro Ala
 195 200 205
 Arg Gly Val Ala Gly Pro Arg Gly Gln Asp Pro Val Ser Ser Pro Cys
 210 215 220
 Gly Xaa
 225.

 <210> 213
 <211> 51
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

 <400> 213
 Met Met Gly Leu Leu Glu Thr Gly Asn Val Leu Phe Trp Val Trp Val
 1 5 10 15
 Val Val Thr Cys Val Tyr Ser Leu Tyr Ala Asn Ser Leu Asn Cys Thr
 20 25 30
 Asp Met Asp Cys Ala Pro Phe Tyr Met Cys Val Met Leu Gln Gln Lys
 35 40 45
 Cys Gln Xaa
 50

<210> 214

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals stop translation

<400> 214

Met Trp Leu Trp Ala Val Ser Pro Val Arg Pro Arg Thr Cys Leu Pro
1 5 10 15Pro Cys Pro Arg Leu Trp Leu Trp Ile Ser Met Thr Leu Val Pro Ser
20 25 30Ser Ser Ala Trp Lys Ser His Gly Ala Pro Ser Thr Arg Met Thr Ser
35 40 45Pro Gln Leu Leu Leu Ser Thr Arg Pro Pro Gln Ser Pro Ser Ala
50 55 60Ser Pro Pro Ile Ala Arg Ala His Arg Thr His Pro His Phe Gly Asn
65 70 75 80Arg Leu Ser Ile Thr Cys Cys Asp Gly Arg Arg Ser Trp Arg Met Gly
85 90 95Gln His Gly Pro Cys His Leu Asn Leu Gln Thr Thr His Pro Ala His
100 105 110Ser Ser Gln Ala Leu Pro Ala Thr His Gln Pro Leu Gly Pro Trp Cys
115 120 125Ser Ser Pro Ser Pro Phe Pro Ser Lys Leu Pro Ser Ala Gly Leu Arg
130 135 140Pro Pro Ala Leu Gly Pro Trp Met Arg Arg Gly Pro Trp Pro Gln Ser
145 150 155 160Trp Gln Met Gly Met His Pro Thr Val Gly Leu Xaa
165 170

<210> 215

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 215

Met Trp Leu Leu Ile Ile Phe Cys Lys Ser Ala Ser Ala Ser Val Leu
1 5 10 15

Cys Trp Ile Lys Lys Phe His Pro Val Phe Gln Glu Ser Leu Leu Tyr
20 25 30

Leu Val Gln Glu Gly Ser Leu Cys Tyr Val Gln Gln Lys Val Pro Xaa
35 40 45

<210> 216

<211> 139

<212> PRT

<213> Homo sapiens

<400> 216

Met Glu Ala Val Val Phe Val Phe Ser Leu Leu Asp Cys Cys Ala Leu
1 5 10 15

Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu Ser Asp Leu Glu Cys
20 25 30

Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys Leu Asn Lys Trp Val
35 40 45

Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr Val Leu Leu Leu Met
50 55 60

Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu Pro Val Ala Thr Trp
65 70 75 80

Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly Asn Met Gly Val Phe
85 90 95

Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys Ser His Met Lys
100 105 110

Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu Cys Phe Phe Met Tyr
115 120 125

Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp
130 135

<210> 217

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals stop translation

<400> 217

Met Ser Gly Ser Ser Leu Pro Ser Ala Leu Ala Leu Ser Leu Leu
1 5 10 15

Val Ser Gly Ser Leu Leu Pro Gly Pro Gly Ala Ala Gln Asn Val Arg
20 25 30

Val Gln Ser Gly Gln Asp Gln Lys Xaa
35 40

<210> 218
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals stop translation

<400> 218
Met Pro Ser His Ile Arg Ala His Leu Phe Leu Leu Phe Phe Leu
1 5 10 15

Phe Ile Tyr Gln Gly Ile Ser Ser Ile Ser Gln Ala Ser Gly Leu Thr
20 25 30

Leu Lys Thr Gln Asn Glu Lys Asp Ile Gln Val Ser Ile Leu Lys Glu
35 40 45

Phe Val Val Xaa
50

<210> 219
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals stop translation

<400> 219
Met Cys Ile Tyr Gln Ser Glu Gln Met Leu Ala Leu Leu Leu Val Leu
1 5 10 15

Val Phe Cys Ile Ser Leu Leu Val Leu Val Cys Trp Gly Ser His Asn
20 25 30

Lys Val Pro Gln Lys Phe Ile Phe Ser Gln Phe Trp Gly Leu Glu Asp
35 40 45

Xaa

<210> 220
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals stop translation

<400> 220
Met Ala Val Pro Leu Phe Leu Tyr Ile Phe Thr Leu Leu Pro Leu Leu
1 5 10 15

Pro Phe Leu Leu Ser Leu Cys Phe Ser Pro Leu Thr Val Lys Arg Ser
20 25 30

Ser Ser Ser Glu Ser Lys Ser Ser Leu Xaa
35 40

<210> 221
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals stop translation

<400> 221
Met Gly Met Leu Leu Ala Phe Trp Leu Pro Gly Ala Ser Trp Gln Glu
1 5 10 15

Ala Gly Pro Arg Ala Ser Thr Gln Arg Met Arg Thr Gln Thr Gln Met
20 25 30

Ser Thr Arg Lys Pro Lys Pro Ala Xaa
35 40

<210> 222
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals stop translation

<400> 222
Met Glu Pro Ala Met Val Leu Lys Phe Leu Ser Ser Leu Pro Glu Asn
1 5 10 15

Leu Phe Leu Pro Ser Leu Leu Phe Phe Ala Trp Leu Cys Trp Asn Met
20 25 30

Val Cys Gly Ser Pro Val Ser Cys Pro Tyr Xaa
35 40

<210> 223
<211> 204
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (204)
<223> Xaa equals stop translation

<400> 223

Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys
1 5 10 15

Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys
20 25 30

Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val
35 40 45

Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala
50 55 60

Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile
65 70 75 80

Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser
85 90 95

Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala
100 105 110

Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr
115 120 125

Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu
130 135 140

Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly
145 150 155 160

Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala
165 170 175

Pro Gly Leu Ser Val Arg Leu Leu Arg Asp Pro Arg Cys Pro Asp Pro
180 185 190

Gly Cys Thr Ala Ala Pro Cys His Ala Ala His Xaa
195 200

<210> 224
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)

<223> Xaa equals stop translation

<400> 224

Met Arg Val Arg Ile Gly Leu Thr Leu Leu Leu Cys Ala Val Leu Leu
1 5 10 15

Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp Glu Ser
20 25 30

Leu Gly Phe Gln Asp Tyr Phe Asp Ile Arg Xaa
35 40

<210> 225

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals stop translation

<400> 225

Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
1 5 10 15

Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
20 25 30

Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
35 40 45

Cys Met Asp Cys Ser Thr Ser Cys Pro Leu Pro Ala Ala Leu Ala His
50 55 60

Pro Trp Gly Arg Ser Glu Pro Asp Leu Arg Ala Gly Ala Ala Phe Trp
65 70 75 80

Leu Phe Gly Leu Glu Thr Met Pro Gln Glu Arg Glu Val His His Pro
85 90 95

His Arg Gly Asp Arg Arg Gly Leu Pro Ser Cys Gly Ala Asp Pro
100 105 110

Val Thr Met Cys Pro Leu Pro Ala Gly Ala Arg Pro Leu Ile Ile His
115 120 125

Ser Ser Ile Leu Glu Pro Val Ser Ala Ser Gln Thr Arg Arg Glu Pro
130 135 140

Ser Ser Ser Asn His Lys Gly Gly Gly Arg Xaa
145 150 155

<210> 226

<211> 74

<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals stop translation

<400> 226
Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
20 25 30

Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
35 40 45

Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser
50 55 60

Pro Pro Leu Xaa Ser Asp Pro Lys Arg Xaa
65 70

<210> 227
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (167)
<223> Xaa equals stop translation

<400> 227

Met Gly Ser Arg Phe Leu Leu Val Leu Leu Ser Gly Leu Thr Val Leu
 1 5 10 15
 Leu Ala Leu Pro Gly Ser Glu Ala Lys Asn Ser Gly Ala Ser Cys Pro
 20 25 30
 Pro Cys Pro Lys Tyr Ala Ser Cys His Asn Ser Thr His Cys Thr Cys
 35 40 45
 Glu Asp Gly Phe Arg Ala Arg Ser Gly Arg Thr Tyr Phe His Asp Ser
 50 55 60
 Ser Glu Lys Cys Glu Asp Ile Asn Glu Cys Glu Thr Gly Leu Ala Lys
 65 70 75 80
 Cys Lys Tyr Lys Ala Tyr Cys Arg Asn Lys Val Gly Gly Tyr Ile Cys
 85 90 95
 Ser Cys Leu Val Lys Tyr Thr Leu Phe Asn Phe Leu Ala Gly Ile Ile
 100 105 110
 Asp Tyr Asp His Pro Asp Cys Tyr Glu Asn Asn Ser Gln Gly Thr Thr
 115 120 125
 Gln Ser Asn Val Asp Ile Trp Val Ser Gly Val Lys Pro Gly Phe Gly
 130 135 140
 Lys Gln Leu Val Arg Ile Thr Met Pro Phe Ser Tyr Pro Asn Ile Asn
 145 150 155 160
 Met Ser Ser Cys Asp Phe Xaa
 165

<210> 228

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals stop translation

<400> 228

Met Lys Pro Lys His Leu Glu Trp Cys Leu Ala His Ser Trp Cys Val
 1 5 10 15

Ile Trp Leu Ser Phe Val Ser Pro Pro Thr Ser His Leu Glu Cys Asp
 20 25 30

Gly Phe Pro Gly Ser Leu Leu Pro Pro Cys Glu Glu Gly Arg Cys Phe
 35 40 45

Pro Phe Thr Phe His His Asp Cys His Gly Cys Ser Pro Leu Gln
 50 55 60

Ser Ser Pro Gly Gln His Xaa
 65 70

<210> 229
<211> 273
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (273)
<223> Xaa equals stop translation

<400> 229

Met	Cys	Cys	Trp	Pro	Leu	Leu	Leu	Leu	Trp	Gly	Leu	Leu	Pro	Gly	Thr
1				5					10				15		

Ala Ala Gly Gly Ser Gly Arg Thr Tyr Pro His Arg Thr Leu Leu Asp

20				25				30							
----	--	--	--	----	--	--	--	----	--	--	--	--	--	--	--

Ser Glu Gly Lys Tyr Trp Leu Gly Trp Ser Gln Arg Gly Ser Gln Ile

35				40				45							
----	--	--	--	----	--	--	--	----	--	--	--	--	--	--	--

Ala Phe Arg Leu Gln Val Arg Thr Ala Gly Tyr Val Gly Phe Gly Phe

50				55				60							
----	--	--	--	----	--	--	--	----	--	--	--	--	--	--	--

Ser Pro Thr Gly Ala Met Ala Ser Ala Asp Ile Val Val Gly Gly Val

65				70				75				80			
----	--	--	--	----	--	--	--	----	--	--	--	----	--	--	--

Ala His Gly Arg Pro Tyr Leu Gln Asp Tyr Phe Thr Asn Ala Asn Arg

85				90				95							
----	--	--	--	----	--	--	--	----	--	--	--	--	--	--	--

Glu Leu Lys Lys Asp Ala Gln Gln Asp Tyr His Leu Glu Tyr Ala Met

100				105				110							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Glu Asn Ser Thr His Thr Ile Ile Glu Phe Thr Arg Glu Leu His Thr

115				120				125							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Cys Asp Ile Asn Asp Lys Ser Ile Thr Asp Ser Thr Val Arg Val Ile

130				135				140							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Trp Ala Tyr His His Glu Asp Ala Gly Glu Ala Gly Pro Lys Tyr His

145				150				155				160			
-----	--	--	--	-----	--	--	--	-----	--	--	--	-----	--	--	--

Asp Ser Asn Arg Gly Thr Lys Ser Leu Arg Leu Leu Asn Pro Glu Lys

165				170				175							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Thr Ser Val Leu Ser Thr Ala Leu Pro Tyr Phe Asp Leu Val Asn Gln

180				185				190							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Asp Val Pro Ile Pro Asn Lys Asp Thr Thr Tyr Trp Cys Gln Met Phe

195				200				205							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Lys Ile Pro Val Phe Gln Glu Lys His His Val Ile Lys Val Glu Pro

210				215				220							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Val Ile Gln Arg Gly His Glu Ser Leu Val His His Ile Leu Leu Tyr

225				230				235				240			
-----	--	--	--	-----	--	--	--	-----	--	--	--	-----	--	--	--

Gln Cys Ser Asn Asn Phe Asn Asp Ser Val Pro Gly Ile Arg Ala Arg

164

245

250

255

Ile Ala Ile Thr Pro Thr Cys Pro Met His Ser Ser Pro Val Lys Leu
260 265 270

Xaa

<210> 230
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (82)
<223> Xaa equals stop translation

<400> 230
Met Arg Pro Gly Thr Ala Leu Gln Ala Val Leu Leu Ala Val Leu Leu
1 5 10 15

Val Gly Leu Arg Ala Ala Thr Gly Arg Leu Leu Ser Gly Gln Pro Val
20 25 30

Cys Arg Gly Gly Thr Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His
35 40 45

Asp Thr Ser Arg Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala Cys Arg
50 55 60

Arg Gly Trp Arg Pro Ala Ser Gln His Arg Val Leu Lys Met Asn Arg
65 70 75 80

Asn Xaa

<210> 231
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 231
Met Ser Pro Leu Ser Ala Ala Arg Ala Leu Arg Val Tyr Ala Val
1 5 10 15

Gly Ala Ala Val Ile Leu Ala Gln Leu Leu Arg Arg Cys Arg Gly Gly
20 25 30

Phe Leu Glu Pro Val Xaa Pro Pro Arg Pro Asp Arg Val Ala Ile Val
35 40 45

Thr Gly Gly Thr Asp Gly Ile Gly Tyr Ser Thr Ala Asn Ile Trp Arg
50 55 60

Asp Leu Ala Cys Met Leu Ser
65 70

<210> 232
<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 232
His Glu Arg Ala Xaa Gly Pro Ser Arg Gly His Gly Glu Leu Leu Ser
1 5 10 15

Cys Val Leu Gly Pro Arg Leu Tyr Lys Ile Tyr Arg Glu Arg Asp Ser
20 25 30

Glu Arg Ala Pro Ala Ser Val Pro Glu Thr Pro Thr Ala Val Thr Ala
35 40 45

Pro His Ser Ser Ser Trp Asp Thr Tyr Tyr Gln Pro Arg Ala Leu Glu
50 55 60

Lys His Ala Asp Ser Ile Leu Ala Leu Ala Ser Val Phe Trp Ser Ile
65 70 75 80

Ser Tyr Tyr Ser Ser Pro Phe Ala Phe Phe Tyr Leu Tyr Arg Lys Gly
85 90 95

Tyr Leu Ser Leu Ser Lys Val Val Pro Phe Ser His Tyr Ala Gly Thr
100 105 110

Leu Leu Leu Leu Ala Gly Val Ala Cys Ser Glu Ala Leu Ala Ala
115 120 125

Gly Pro Thr Pro Ser Thr Gly Ser Ser Ser Pro Ser Trp Lys Gln His
130 135 140

Ile Gly Thr Ser Leu Gln Lys Thr Arg Gly Ser Leu Pro Thr Thr Thr
145 150 155 160

Leu Thr Ser Gly Ala Gly Gln Ser Thr Ser Thr Gly Lys Asn Pro Ala
165 170 175

Ala Gly Arg Ser Leu Glu Gly Ala Leu Pro Ala Gly Val Trp Pro Cys
180 185 190

Phe Ala Gln Ser Pro Cys Thr Gly Gly Gln Gln Thr Pro Ser Ser Thr
195 200 205

Gly Leu Arg Ser Cys Leu Val Arg Ser Pro Ala Thr Trp Trp Arg Thr
210 215 220

Pro
225

<210> 233

<211> 314

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 233

Met Leu Pro Ala Arg Leu Pro Phe Arg Leu Leu Ser Leu Phe Leu Arg
1 5 10 15

Gly Ser Ala Pro Thr Ala Ala Arg His Gly Leu Arg Glu Pro Leu Leu
20 25 30

Glu Arg Arg Cys Ala Ala Ser Ser Phe Gln His Ser Ser Ser Leu
35 40 45

Gly Arg Glu Leu Pro Tyr Asp Pro Val Asp Thr Glu Gly Phe Gly Glu
50 55 60

Gly Gly Asp Met Gln Glu Arg Phe Leu Phe Pro Glu Tyr Ile Leu Asp
65 70 75 80

Pro Glu Pro Gln Pro Thr Arg Glu Lys Gln Leu Gln Glu Leu Gln Gln
85 90 95

Gln Gln Glu Glu Glu Arg Gln Arg Gln Arg Arg Glu Glu Arg
100 105 110

Arg Gln Gln Asn Leu Arg Ala Arg Ser Arg Glu His Pro Val Val Gly
115 120 125

His Pro Asp Pro Ala Leu Pro Pro Ser Gly Val Asn Cys Ser Gly Cys
130 135 140

Gly Ala Xaa Leu His Cys Gln Asp Ala Gly Val Pro Gly Tyr Leu Pro
145 150 155 160

Arg Glu Lys Phe Leu Arg Thr Ala Glu Ala Asp Gly Gly Leu Ala Arg
165 170 175

Thr Val Cys Gln Arg Cys Trp Leu Leu Ser His His Arg Arg Ala Leu
180 185 190

Arg Leu Gln Val Val Ser Arg Glu Gln Tyr Leu Glu Leu Val Ser Ala Ala
195 200 205

Leu Arg Xaa Pro Gly Pro Ser Leu Val Leu Tyr Met Val Asp Leu Leu
210 215 220

Asp Leu Pro Asp Ala Leu Leu Pro Asp Leu Pro Ala Leu Val Gly Pro
225 230 235 240

Lys Gln Leu Ile Val Leu Gly Asn Lys Val Asp Leu Leu Pro Gln Asp
245 250 255

Ala Pro Gly Tyr Arg Gln Arg Leu Arg Glu Arg Leu Trp Glu Asp Cys
260 265 270

Ala Arg Ala Gly Leu Leu Leu Ala Pro Gly Thr Lys Gly His Ser Ala
275 280 285

Pro Ser Arg Thr Ser His Arg Thr Gly Arg Ile Arg Ile Arg Arg Thr
290 295 300

Gly Pro Ala Gln Trp Ser Gly Thr Cys Gly
305 310

<210> 234

<211> 93

<212> PRT

<213> Homo sapiens

<400> 234

Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu Arg Gly Leu
1 5 10 15

Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser Ala Ser Glu
20 25 30

Ile Pro Lys Gly Lys Gln Lys Ala His Ser Gly Arg Gly Arg Trp Trp
35 40 45

Thr Cys Ile Met Glu Cys Ala Tyr Lys Gly Gln Gln Glu Cys Leu Val
50 55 60

Glu Thr Gly Ala Leu Gly Pro Met Ala Phe Arg Val His Leu Gly Ser
65 70 75 80

Gln Val Gly Met Asp Ser Lys Glu Lys Arg Gly Asn Val
85 90

<210> 235

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals stop translation

<400> 235

Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val
1 5 10 15

Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
20 25 30

Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
35 40 45

Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Thr Cys Ser Ala
50 55 60

Lys Cys Thr Thr Arg Cys Trp Leu Xaa
65 70

<210> 236

<211> 349

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (283)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (293)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (325)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (349)

<223> Xaa equals stop translation

<400> 236

Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
1 5 10 15

Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
20 25 30

Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
35 40 45

Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val
50 55 60

Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala
65 70 75 80

Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr
85 90 95

Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys
100 105 110

Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile
115 120 125

Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Thr
130 135 140

Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro
145 150 155 160

Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro
165 170 175

Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala
180 185 190

Val Ala Gly Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp
195 200 205

Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys
210 215 220

Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Asn Cys His
225 230 235 240

Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro
245 250 255

Val Pro Gly Ala Lys Lys Ser Ser Lys Leu Tyr Ile Pro Tyr Ile Ile
260 265 270

Leu Thr Ile Ile Ile Leu Thr Ile Val Gly Xaa Ile Trp Leu Leu Lys
275 280 285

Val Asn Gly Cys Xaa Lys Tyr Lys Leu Asn Lys Pro Glu Ser Thr Pro
290 295 300

Val Val Glu Glu Asp Glu Met Gln Pro Tyr Ala Phe Tyr Thr Glu Lys
305 310 315 320

Asn Asn Pro Leu Xaa Xaa Thr Thr Asn Lys Val Lys Ala Ser Glu Ala
325 330 335

Leu Gln Ser Glu Val Asp Thr Asp Leu His Thr Leu Xaa
340 345

<210> 237

<211> 17

<212> PRT

<213> Homo sapiens

<400> 237

Leu Ala Leu Tyr Ser Ala Leu Phe Ser Tyr Ser Gly Trp Asp Thr Leu
1 5 10 15

Asn

<210> 238

<211> 14

<212> PRT

<213> Homo sapiens

<400> 238

Val Thr Glu Glu Ile Lys Asn Pro Glu Arg Asn Leu Pro Leu
1 5 10

<210> 239

<211> 9

<212> PRT

<213> Homo sapiens

<400> 239

Ile Gly Ile Ser Met Pro Ile Val Thr
1 5

<210> 240

<211> 13

<212> PRT

<213> Homo sapiens

<400> 240

Ile Tyr Ile Leu Thr Asn Val Ala Tyr Tyr Thr Val Leu
1 5 10

<210> 241

<211> 11

<212> PRT

<213> Homo sapiens

<400> 241

Ser Asp Ala Val Ala Val Thr Phe Ala Asp Gln
1 5 10

<210> 242

<211> 13

<212> PRT

<213> Homo sapiens

<400> 242

Val Ala Leu Ser Cys Phe Gly Gly Leu Asn Ala Ser Ile
1 5 10

<210> 243
<211> 15
<212> PRT
<213> Homo sapiens

<400> 243
Ser Arg Leu Phe Phe Val Gly Ser Arg Glu Gly His Leu Pro Asp
1 5 10 15

<210> 244
<211> 11
<212> PRT
<213> Homo sapiens

<400> 244
Ser Phe Ser Tyr Trp Phe Phe Val Gly Leu Ser
1 5 10

<210> 245
<211> 11
<212> PRT
<213> Homo sapiens

<400> 245
Val Gly Gln Leu Tyr Leu Arg Trp Lys Glu Pro
1 5 10

<210> 246
<211> 16
<212> PRT
<213> Homo sapiens

<400> 246
Arg Pro Arg Pro Leu Lys Leu Ser Val Phe Phe Pro Ile Val Phe Cys
1 5 10 15

<210> 247
<211> 9
<212> PRT
<213> Homo sapiens

<400> 247
Asp Thr Ile Asn Ser Leu Ile Gly Ile
1 5

<210> 248
<211> 44
<212> PRT
<213> Homo sapiens

<400> 248

Ala Thr Ala Leu Pro Pro Lys Ile Val Gly Ser Ala Thr Arg Tyr Leu
1 5 10 15

Gln Val Leu Cys Met Ser Val Ala Ala Glu Met Asp Leu Glu Asp Gly
20 25 30

Gly Glu Met Pro Lys Gln Arg Asp Pro Lys Ser Asn
35 40

<210> 249

<211> 352

<212> PRT

<213> Homo sapiens

<400> 249

Leu Leu Ala Ala Ala Cys Ile Cys Leu Leu Thr Phe Ile Asn Cys Ala
1 5 10 15

Tyr Val Lys Trp Gly Thr Leu Val Gln Asp Ile Phe Thr Tyr Ala Lys
20 25 30

Val Leu Ala Leu Ile Ala Val Ile Val Ala Gly Ile Val Arg Leu Gly
35 40 45

Gln Gly Ala Ser Thr His Phe Glu Asn Ser Phe Glu Gly Ser Ser Phe
50 55 60

Ala Val Gly Asp Ile Ala Leu Ala Leu Tyr Ser Ala Leu Phe Ser Tyr
65 70 75 80

Ser Gly Trp Asp Thr Leu Asn Tyr Val Thr Glu Glu Ile Lys Asn Pro
85 90 95

Glu Arg Asn Leu Pro Leu Ser Ile Gly Ile Ser Met Pro Ile Val Thr
100 105 110

Ile Ile Tyr Ile Leu Thr Asn Val Ala Tyr Tyr Thr Val Leu Asp Met
115 120 125

Arg Asp Ile Leu Ala Ser Asp Ala Val Ala Val Thr Phe Ala Asp Gln
130 135 140

Ile Phe Gly Ile Phe Asn Trp Ile Ile Pro Leu Ser Val Ala Leu Ser
145 150 155 160

Cys Phe Gly Gly Leu Asn Ala Ser Ile Val Ala Ala Ser Arg Leu Phe
165 170 175

Phe Val Gly Ser Arg Glu Gly His Leu Pro Asp Ala Ile Cys Met Ile
180 185 190

His Val Glu Arg Phe Thr Pro Val Pro Ser Leu Leu Phe Asn Gly Ile
195 200 205

Met Ala Leu Ile Tyr Leu Cys Val Glu Asp Ile Phe Gin Leu Ile Asn
210 215 220

Tyr Tyr Ser Phe Ser Tyr Trp Phe Phe Val Gly Leu Ser Ile Val Gly

225	230	235	240
Gln Leu Tyr Leu Arg Trp Lys Glu Pro Asp Arg Pro Arg Pro Leu Lys			
245	250	255	
Leu Ser Val Phe Phe Pro Ile Val Phe Cys Leu Cys Thr Ile Phe Leu			
260	265	270	
Val Ala Val Pro Leu Tyr Ser Asp Thr Ile Asn Ser Leu Ile Gly Ile			
275	280	285	
Ala Ile Ala Leu Ser Gly Leu Pro Phe Tyr Phe Leu Ile Ile Arg Val			
290	295	300	
Pro Glu His Lys Arg Pro Leu Tyr Leu Arg Arg Ile Val Gly Ser Ala			
305	310	315	320
Thr Arg Tyr Leu Gln Val Leu Cys Met Ser Val Ala Ala Glu Met Asp			
325	330	335	
Leu Glu Asp Gly Gly Glu Met Pro Lys Gln Arg Asp Pro Lys Ser Asn			
340	345	350	

<210> 250

<211> 119

<212> PRT

<213> Homo sapiens

<400> 250

Ala Ala Arg Gly Ser Gly Val Arg Asp Pro Leu Glu Glu Ala Val Cys		
1	5	10
		15

Pro Phe Ser Asp Leu Gln Leu His Ala Gly Arg Thr Thr Ala Leu Phe		
20	25	30

Lys Ala Val Arg Gln Gly His Leu Ser Leu Gln Arg Leu Leu Leu Ser		
35	40	45

Phe Val Cys Leu Cys Pro Ala Pro Arg Gly Gly Ala Tyr Arg Gly Arg		
50	55	60

Gln Ala Ser Leu Ser Cys Gly Gly Leu His Pro Val Arg Ala Ser Arg		
65	70	75
		80

Leu Leu Cys Leu Pro Lys Gln Ala Trp Ala Met Ala Gly Ala Pro Pro		
85	90	95

Pro Val Ser Leu Pro Pro Cys Ser Leu Ile Ser Asp Cys Cys Ala Ser		
100	105	110

Asn Gln Arg Asp Ser Val Gly		
115		

<210> 251

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 251

Leu Ser Lys Ala Phe Leu Asp Ser Pro Asn Arg Leu Leu Ala Val Glu
1 5 10 15Met Asn Thr Asp His Leu Arg Leu Thr Val Pro Asn Gly Ile Gly Ala
20 25 30Leu Lys Leu Arg Xaa Met Glu His Tyr Phe Ser Gln Gly Leu Ser Val
35 40 45Gln Leu Phe Asn Asp Gly Ser Lys Gly Lys Leu Asn His Leu Cys Gly
50 55 60Ala Asp Phe Val Lys Ser His Gln Lys Pro Pro Gln Gly Met Glu Ile
65 70 75 80Lys Ser Asn Glu Arg Cys Cys Ser Phe Asp Gly Asp Ala Asp Arg Ile
85 90 95Val Tyr Tyr Tyr His Asp Ala Asp Gly His Phe His Leu Ile Asp Gly
100 105 110Asp Lys Ile Ala Thr Leu Ile Ser Ser Phe Leu Lys Glu Leu Leu Val
115 120 125Glu Ile Gly Glu Ser Leu Asn Ile Gly Val Val Gln Thr Ala Tyr Ala
130 135 140Asn Gly Ser Ser Thr Arg Tyr Leu Glu Glu Val Met Lys Val Pro Val
145 150 155 160Tyr Cys Thr Lys Thr Gly Val Lys His Leu His His Lys Ala Gln Glu
165 170 175Phe Asp Ile Gly Val Tyr Phe Glu Ala Asn Gly His Gly Thr Ala Leu
180 185 190Phe Ser Thr Ala Val Glu Met Lys Ile Lys Gln Ser Ala Glu Gln Leu
195 200 205Glu Asp Lys Lys Arg Lys Ala Ala Lys Met Leu Glu Asn Ile Ile Asp
210 215 220Leu Phe Asn Gln Ala Ala Gly Asp Ala Ile Ser Asp Met Leu Val Ile
225 230 235 240

Glu Ala Ile Leu Ala Leu Lys Gly Leu Thr Val Gln Gln Trp Asp Ala
245 250 255

Leu Tyr Thr Asp Leu Pro Asn Arg Gln Leu Lys Val Gln Val Ala Asp
260 265 270

Arg Arg Val Ile Ser Thr Thr Xaa Ala Glu Arg Gln Ala Val Thr Pro
275 280 285

Pro Gly Leu Gln Glu Ala Ile Asn Asp Leu Val Lys Lys Tyr Lys Leu
290 295 300

Ser Arg Ala Phe Val Arg Pro Ser Gly Thr Glu Asp Val Val Arg Val
305 310 315 320

Tyr Ala Glu Ala Asp Ser Gln Glu Ser Ala Asp His Leu Ala His Glu
325 330 335

Val Ser Leu Ala Val Phe Gln Leu Ala Gly Gly Ile Gly Glu Arg Pro
340 345 350

Gln Pro Gly Phe
355

<210> 252

<211> 26

<212> PRT

<213> Homo sapiens

<400> 252

Leu Ser Lys Ala Phe Leu Asp Ser Pro Asn Arg Leu Leu Ala Val Glu
1 5 10 15

Met Asn Thr Asp His Leu Arg Leu Thr Val
20 25

<210> 253

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 253

Pro Asn Gly Ile Gly Ala Leu Lys Leu Arg Xaa Met Glu His Tyr Phe
1 5 10 15

Ser Gln Gly Leu Ser Val Gln Leu Phe Asn Asp Gly
20 25

<210> 254

<211> 28

<212> PRT

<213> Homo sapiens

<400> 254

Ser Lys Gly Lys Leu Asn His Leu Cys Gly Ala Asp Phe Val Lys Ser
1 5 10 15His Gln Lys Pro Pro Gln Gly Met Glu Ile Lys Ser
20 25

<210> 255

<211> 28

<212> PRT

<213> Homo sapiens

<400> 255

Asn Glu Arg Cys Cys Ser Phe Asp Gly Asp Ala Asp Arg Ile Val Tyr
1 5 10 15Tyr Tyr His Asp Ala Asp Gly His Phe His Leu Ile
20 25

<210> 256

<211> 28

<212> PRT

<213> Homo sapiens

<400> 256

Asp Gly Asp Lys Ile Ala Thr Leu Ile Ser Ser Phe Leu Lys Glu Leu
1 5 10 15Leu Val Glu Ile Gly Glu Ser Leu Asn Ile Gly Val
20 25

<210> 257

<211> 28

<212> PRT

<213> Homo sapiens

<400> 257

Val Gln Thr Ala Tyr Ala Asn Gly Ser Ser Thr Arg Tyr Leu Glu Glu
1 5 10 15Val Met Lys Val Pro Val Tyr Cys Thr Lys Thr Gly
20 25

<210> 258

<211> 28

<212> PRT

<213> Homo sapiens

<400> 258

Val Lys His Leu His His Lys Ala Gln Glu Phe Asp Ile Gly Val Tyr
1 5 10 15

Phe Glu Ala Asn Gly His Gly Thr Ala Leu Phe Ser
20 25

<210> 259

<211> 28

<212> PRT

<213> Homo sapiens

<400> 259

Thr Ala Val Glu Met Lys Ile Lys Gln Ser Ala Glu Gln Leu Glu Asp
1 5 10 15

Lys Lys Arg Lys Ala Ala Lys Met Leu Glu Asn Ile
20 25

<210> 260

<211> 28

<212> PRT

<213> Homo sapiens

<400> 260

Ile Asp Leu Phe Asn Gln Ala Ala Gly Asp Ala Ile Ser Asp Met Leu
1 5 10 15

Val Ile Glu Ala Ile Leu Ala Leu Lys Gly Leu Thr
20 25

<210> 261

<211> 28

<212> PRT

<213> Homo sapiens

<400> 261

Val Gln Gln Trp Asp Ala Leu Tyr Thr Asp Leu Pro Asn Arg Gln Leu
1 5 10 15

Lys Val Gln Val Ala Asp Arg Arg Val Ile Ser Thr
20 25

<210> 262

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 262

Thr Xaa Ala Glu Arg Gln Ala Val Thr Pro Pro Gly Leu Gln Glu Ala
1 5 10 15

Ile Asn Asp Leu Val Lys Lys Tyr Lys Leu Ser Arg
20 25

<210> 263
<211> 24
<212> PRT
<213> Homo sapiens

<400> 263
Ala Phe Val Arg Pro Ser Gly Thr Glu Asp Val Val Arg Val Tyr Ala
1 5 10 15
Glu Ala Asp Ser Gln Glu Ser Ala
20

<210> 264
<211> 26
<212> PRT
<213> Homo sapiens

<400> 264
Asp His Leu Ala His Glu Val Ser Leu Ala Val Phe Gln Leu Ala Gly
1 5 10 15
Gly Ile Gly Glu Arg Pro Gln Pro Gly Phe
20 25

<210> 265
<211> 443
<212> PRT
<213> Homo sapiens

<400> 265
Gly Thr Arg Ala Ala Pro Gly Leu Gly Ala Trp Gly Arg Arg Ser Pro
1 5 10 15
Pro Ser Phe Ser Pro Pro Arg Pro Arg Arg Pro Gly Val Met Ala Gly
20 25 30

Leu Asn Cys Gly Val Ser Ile Ala Leu Leu Gly Val Leu Leu Gly
35 40 45
Ala Ala Arg Leu Pro Arg Gly Ala Glu Ala Phe Glu Ile Ala Leu Pro
50 55 60

Arg Glu Ser Asn Ile Thr Val Leu Ile Lys Leu Gly Thr Pro Thr Leu
65 70 75 80

Leu Ala Lys Pro Cys Tyr Ile Val Ile Ser Lys Arg His Ile Thr Met
85 90 95

Leu Ser Ile Lys Ser Gly Glu Arg Ile Val Phe Thr Phe Ser Cys Gln
100 105 110

Ser Pro Glu Asn His Phe Val Ile Glu Ile Gln Lys Asn Ile Asp Cys
115 120 125

Met Ser Gly Pro Cys Pro Phe Gly Glu Val Gln Leu Gln Pro Ser Thr

130 135 140

Ser Leu Leu Pro Thr Leu Asn Arg Thr Phe Ile Trp Asp Val Lys Ala
145 150 155 160

His Lys Ser Ile Gly Leu Glu Leu Gln Phe Ser Ile Pro Arg Leu Arg
165 170 175

Gln Ile Gly Pro Gly Glu Ser Cys Pro Asp Gly Val Thr His Ser Ile
180 185 190

Ser Gly Arg Ile Asp Ala Thr Val Val Arg Ile Gly Thr Phe Cys Ser
195 200 205

Asn Gly Thr Val Ser Arg Ile Lys Met Gln Glu Gly Val Lys Met Ala
210 215 220

Leu His Leu Pro Trp Phe His Pro Arg Asn Val Ser Gly Phe Ser Ile
225 230 235 240

Ala Asn Arg Ser Ser Ile Lys Arg Leu Cys Ile Ile Glu Ser Val Phe
245 250 255

Glu Gly Glu Gly Ser Ala Thr Leu Met Ser Ala Asn Tyr Pro Glu Gly
260 265 270

Phe Pro Glu Asp Glu Leu Met Thr Trp Gln Phe Val Val Pro Ala His
275 280 285

Leu Arg Ala Ser Val Ser Phe Leu Asn Phe Asn Leu Ser Asn Cys Glu
290 295 300

Arg Lys Glu Glu Arg Val Glu Tyr Tyr Ile Pro Gly Ser Thr Thr Asn
305 310 315 320

Pro Glu Val Phe Lys Leu Glu Asp Lys Gln Pro Gly Asn Met Ala Gly
325 330 335

Asn Phe Asn Leu Ser Leu Gln Gly Cys Asp Gln Asp Ala Gln Ser Pro
340 345 350

Gly Ile Leu Arg Leu Gln Phe Gln Val Leu Val Gln His Pro Gln Asn
355 360 365

Glu Ser Asn Lys Ile Tyr Val Val Asp Leu Ser Asn Glu Arg Ala Met
370 375 380

Ser Leu Thr Ile Glu Pro Arg Pro Val Lys Gln Ser Arg Lys Phe Val
385 390 395 400

Pro Gly Cys Phe Val Cys Leu Glu Ser Arg Thr Cys Ser Ser Asn Leu
405 410 415

Thr Leu Thr Ser Gly Ser Lys His Lys Ile Ser Phe Leu Cys Asp Asp
420 425 430

Leu Thr Arg Leu Trp Met Asn Val Glu Lys Pro
435 440

<210> 266
<211> 159
<212> PRT
<213> Homo sapiens

<400> 266
Phe Glu Ile Ala Leu Pro Arg Glu Ser Asn Ile Thr Val Leu Ile Lys
1 5 10 15
Leu Gly Thr Pro Thr Leu Leu Ala Lys Pro Cys Tyr Ile Val Ile Ser
20 25 30
Lys Arg His Ile Thr Met Leu Ser Ile Lys Ser Gly Glu Arg Ile Val
35 40 45
Phe Thr Phe Ser Cys Gln Ser Pro Glu Asn His Phe Val Ile Glu Ile
50 55 60
Gln Lys Asn Ile Asp Cys Met Ser Gly Pro Cys Pro Phe Gly Glu Val
65 70 75 80
Gln Leu Gln Pro Ser Thr Ser Leu Leu Pro Thr Leu Asn Arg Thr Phe
85 90 95
Ile Trp Asp Val Lys Ala His Lys Ser Ile Gly Leu Glu Leu Gln Phe
100 105 110
Ser Ile Pro Arg Leu Arg Gln Ile Gly Pro Gly Glu Ser Cys Pro Asp
115 120 125
Gly Val Thr His Ser Ile Ser Gly Arg Ile Asp Ala Thr Val Val Arg
130 135 140
Ile Gly Thr Phe Cys Ser Asn Gly Thr Val Ser Arg Ile Lys Met
145 150 155

<210> 267
<211> 9
<212> PRT
<213> Homo sapiens

<400> 267
Phe Val Arg Asp Pro Phe Val Arg Leu
1 5

<210> 268
<211> 13
<212> PRT
<213> Homo sapiens

<400> 268
Phe Leu Phe Val Arg Asp Pro Phe Val Arg Leu Ile Ser
1 5 10

<210> 269

<211> 15
<212> PRT
<213> Homo sapiens

<400> 269

Phe Leu Phe Val Arg Asp Pro Phe Val Arg Leu Ile Ser Ala Phe
1 5 10 15

<210> 270

<211> 380

<212> PRT

<213> Homo sapiens

<400> 270

Tyr Leu His Thr Ser Phe Ser Arg Pro His Thr Gly Pro Pro Leu Pro
1 5 10 15

Thr Pro Gly Pro Asp Arg Asp Arg Glu Leu Thr Ala Asp Ser Asp Val
20 25 30

Asp Glu Phe Leu Asp Lys Phe Leu Ser Ala Gly Val Lys Gln Ser Asp
35 40 45

Leu Pro Arg Lys Glu Thr Glu Gln Pro Pro Ala Pro Gly Ser Met Glu
50 55 60

Glu Asn Val Arg Gly Tyr Asp Trp Ser Pro Arg Asp Ala Arg Arg Ser
65 70 75 80

Pro Asp Gln Gly Arg Gln Gln Ala Glu Arg Arg Ser Val Leu Arg Gly
85 90 95

Phe Cys Ala Asn Ser Ser Leu Ala Phe Pro Thr Lys Glu Arg Ala Phe
100 105 110

Asp Asp Ile Pro Asn Ser Glu Leu Ser His Leu Ile Val Asp Asp Arg
115 120 125

His Gly Ala Ile Tyr Cys Tyr Val Pro Lys Val Ala Cys Thr Asn Trp
130 135 140

Lys Arg Val Met Ile Val Leu Ser Gly Ser Leu Leu His Arg Gly Ala
145 150 155 160

Pro Tyr Arg Asp Pro Leu Arg Ile Pro Arg Glu His Val His Asn Ala
165 170 175

Ser Ala His Leu Thr Phe Asn Lys Phe Trp Arg Arg Tyr Gly Lys Leu
180 185 190

Ser Arg His Leu Met Lys Val Lys Leu Lys Lys Tyr Thr Lys Phe Leu
195 200 205

Phe Val Arg Asp Pro Phe Val Arg Leu Ile Ser Ala Phe Arg Ser Lys
210 215 220

Phe Glu Leu Glu Asn Glu Glu Phe Tyr Arg Lys Phe Ala Val Pro Met
225 230 235 240

Leu Arg Leu Tyr Ala Asn His Thr Ser Leu Pro Ala Ser Ala Arg Glu
245 250 255

Ala Phe Arg Ala Gly Leu Lys Val Ser Phe Ala Asn Phe Ile Gln Tyr
260 265 270

Leu Leu Asp Pro His Thr Glu Lys Leu Ala Pro Phe Asn Glu His Trp
275 280 285

Arg Gln Val Tyr Arg Leu Cys His Pro Cys Gln Ile Asp Tyr Asp Phe
290 295 300

Val Gly Lys Leu Glu Thr Leu Asp Glu Asp Ala Ala Gln Leu Leu Gln
305 310 315 320

Leu Leu Gln Val Asp Arg Gln Leu Arg Phe Pro Pro Ser Tyr Arg Asn
325 330 335

Arg Thr Ala Ser Ser Trp Glu Glu Asp Trp Phe Ala Lys Ile Pro Leu
340 345 350

Ala Trp Arg Gln Gln Leu Tyr Lys Leu Tyr Glu Ala Asp Phe Val Leu
355 360 365

Phe Gly Tyr Pro Lys Pro Glu Asn Leu Leu Arg Asp
370 375 380

<210> 271

<211> 274

<212> PRT

<213> Homo sapiens

<400> 271

Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro
1 5 10 15

Arg Val Arg Ser Lys Ile Gly Ser Arg Arg Trp Met Leu Gln Leu Ile
20 25 30

Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys
35 40 45

Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys
50 55 60

Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val
65 70 75 80

Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala
85 90 95

Leu Gly Ala Ala Leu Gln Leu Aia Ile Ser Thr Tyr Ala Ala Tyr Ile
100 105 110

Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser
115 120 125

Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala
 130 135 140
 Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr
 145 150 155 160
 Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu
 165 170 175
 Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly
 180 185 190
 Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala
 195 200 205
 Leu Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu
 210 215 220
 Ala Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala
 225 230 235 240
 Tyr Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu
 245 250 255
 Leu Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr
 260 265 270
 Asp Gly

<210> 272
 <211> 203
 <212> PRT
 <213> Homo sapiens

<400> 272
 Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys
 1 5 10 15

Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys
 20 25 30

Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val
 35 40 45

Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala
 50 55 60

Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile
 65 70 75 80

Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser
 85 90 95

Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala
 100 105 110

Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr

115

120

125

Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu

130

135

140

Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly

145

150

155

160

Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala

165

170

175

Pro Gly Leu Ser Val Arg Leu Leu Arg Asp Pro Arg Cys Pro Asp Pro

180

185

190

Gly Cys Thr Ala Ala Pro Cys His Ala Ala His

195

200

<210> 273

<211> 407

<212> PRT

<213> Homo sapiens

<400> 273

Ser Asn Glu Ile Leu Leu Ser Phe Pro Gln Asn Tyr Tyr Ile Gln Trp

1

5

10

15

Leu Asn Gly Ser Leu Ile His Gly Leu Trp Asn Leu Ala Ser Leu Phe

20

25

30

Ser Asn Leu Cys Leu Phe Val Leu Met Pro Phe Ala Phe Phe Leu

35

40

45

Glu Ser Glu Gly Phe Ala Gly Leu Lys Lys Gly Ile Arg Ala Arg Ile

50

55

60

Leu Glu Thr Leu Val Met Leu Leu Leu Ala Leu Leu Ile Leu Gly

65

70

75

80

Ile Val Trp Val Ala Ser Ala Leu Ile Asp Asn Asp Ala Ala Ser Met

85

90

95

Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu Tyr Ser

100

105

110

Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Cys Thr Pro Val

115

120

125

Gly Leu Ser Arg Met Phe Thr Val Met Gly His Leu Leu Val Lys Pro

130

135

140

Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr Leu Glu

145

150

155

160

Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser Val Glu

165

170

175

Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys Thr Leu

180

185

190

Lys Thr Lys Leu Glu Arg Arg Lys Lys Ala Ser Ala Trp Glu Arg Asn
195 200 205

Leu Val Tyr Pro Ala Val Met Val Leu Leu Ile Glu Thr Ser Ile
210 215 220

Ser Val Leu Leu Val Ala Cys Asn Ile Leu Cys Leu Leu Val Asp Glu
225 230 235 240

Thr Ala Met Pro Lys Gly Thr Arg Gly Pro Gly Ile Gly Asn Ala Ser
245 250 255

Leu Ser Thr Phe Phe Val Gly Ala Ala Leu Glu Ile Ile Leu Ile
260 265 270

Phe Tyr Leu Met Val Ser Ser Val Val Gly Phe Tyr Ser Leu Arg Phe
275 280 285

Phe Gly Asn Phe Thr Pro Lys Lys Asp Asp Thr Thr Met Thr Lys Ile
290 295 300

Ile Gly Asn Cys Val Ser Ile Leu Val Leu Ser Ser Ala Leu Pro Val
305 310 315 320

Met Ser Arg Thr Leu Gly Ile Thr Arg Phe Asp Leu Leu Gly Asp Phe
325 330 335

Gly Arg Phe Asn Trp Leu Gly Asn Phe Tyr Ile Val Leu Ser Tyr Asn
340 345 350

Leu Leu Phe Ala Ile Val Thr Thr Leu Cys Leu Val Arg Lys Phe Thr
355 360 365

Ser Ala Val Arg Glu Glu Leu Phe Lys Ala Leu Gly Leu His Lys Leu
370 375 380

His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala Lys Pro Ser Val
385 390 395 400

Asn Gly His Gln Lys Ala Leu
405

<210> 274
<211> 165
<212> PRT
<213> Homo sapiens

<400> 274
Arg Ser Tyr Met Gln Ser Val Trp Thr Glu Glu Ser Gln Cys Thr Leu
1 5 10 15

Leu Asn Ala Ser Ile Thr Glu Thr Phe Asn Cys Ser Phe Ser Cys Gly
20 25 30

Pro Asp Cys Trp Lys Leu Ser Gln Tyr Pro Cys Leu Gln Val Tyr Val
35 40 45

Asn Leu Thr Ser Ser Gly Glu Lys Leu Leu Leu Tyr His Thr Glu Glu
50 55 60

Thr Ile Lys Ile Asn Gln Lys Cys Ser Tyr Ile Pro Lys Cys Gly Lys
65 70 75 80

Asn Phe Glu Glu Ser Met Ser Leu Val Asn Val Val Met Glu Asn Phe
85 90 95

Arg Lys Tyr Gln His Phe Ser Cys Tyr Ser Asp Pro Glu Gly Asn Gln
100 105 110

Lys Ser Val Ile Leu Thr Lys Leu Tyr Ser Ser Asn Val Leu Phe His
115 120 125

Ser Leu Phe Trp Pro Thr Cys Met Met Ala Gly Gly Val Ala Ile Val
130 135 140

Ala Met Val Lys Leu Thr Gln Tyr Leu Ser Leu Leu Cys Glu Arg Ile
145 150 155 160

Gln Arg Ile Asn Arg
165

<210> 275

<211> 155

<212> PRT

<213> Homo sapiens

<400> 275

Ala Phe Ala His Leu Gln Leu Gly Pro Met Trp Lys Leu Trp Arg Ala
1 5 10 15

Glu Glu Gly Ala Ala Ala Leu Gly Gly Ala Leu Phe Leu Leu Phe
20 25 30

Ala Leu Gly Val Arg Gln Leu Leu Lys Gln Arg Arg Pro Met Gly Phe
35 40 45

Pro Pro Gly Pro Pro Gly Leu Pro Phe Ile Gly Asn Ile Tyr Ser Leu
50 55 60

Ala Ala Ser Ser Glu Leu Pro His Val Tyr Met Arg Lys Gln Ser Gln
65 70 75 80

Val Tyr Gly Glu Val Gln Pro Arg Arg Ala Pro Gly Arg Glu Gly Arg
85 90 95

Gln Ala Gly Pro Gly Trp Pro Gly Pro Ser Trp Leu Asp Leu Trp Pro
100 105 110

Pro Leu Gly Arg Leu Val Gly Thr Ser Pro Cys Ala Gly Cys Pro Leu
115 120 125

Arg Asp Thr Arg Phe Pro Gly Leu Glu Gly Arg Ser Pro Arg Arg Arg
130 135 140

Ala Pro Leu Gln Gly Glu Pro Arg Pro Cys Arg

145 150

155

<210> 276
<211> 42
<212> PRT
<213> Homo sapiens

<400> 276
Met Arg Val Arg Ile Gly Leu Thr Leu Leu Leu Cys Ala Val Leu Leu
1 5 10 15
Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp Glu Ser
20 25 30
Leu Gly Phe Gln Asp Tyr Phe Asp Ile Arg
35 40

<210> 277
<211> 155
<212> PRT
<213> Homo sapiens

<400> 277
Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
1 5 10 15
Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
20 25 30
Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
35 40 45
Cys Met Asp Cys Ser Thr Ser Cys Pro Leu Pro Ala Ala Leu Ala His
50 55 60
Pro Trp Gly Arg Ser Glu Pro Asp Leu Arg Ala Gly Ala Ala Phe Trp
65 70 75 80
Leu Phe Gly Leu Glu Thr Met Pro Gln Glu Arg Glu Val His His Pro
85 90 95
His Arg Gly Asp Arg Arg Gly Leu Pro Ser Cys Gly Ala Asp Pro
100 105 110
Val Thr Met Cys Pro Leu Pro Ala Gly Ala Arg Pro Leu Ile Ile His
115 120 125
Ser Ser Ile Leu Glu Pro Val Ser Ala Ser Gln Thr Arg Arg Glu Pro
130 135 140
Ser Ser Ser Asn His Lys Gly Gly Gly Arg
145 150 155

<210> 278
<211> 207
<212> PRT

<213> Homo sapiens

<400> 278

Gly Thr Ser Phe Leu Asp Pro Thr Leu Ser Leu Phe Val Leu Glu Lys
1 5 10 15Phe Asn Leu Pro Ala Gly Tyr Val Gly Leu Val Phe Leu Gly Met Ala
20 25 30Leu Ser Tyr Ala Ile Ser Ser Pro Leu Phe Gly Leu Leu Ser Asp Lys
35 40 45Arg Pro Pro Leu Arg Lys Trp Leu Leu Val Phe Gly Asn Leu Ile Thr
50 55 60Ala Gly Cys Tyr Met Leu Leu Gly Pro Val Pro Ile Leu His Ile Lys
65 70 75 80Ser Gln Leu Trp Leu Leu Val Leu Ile Leu Val Val Ser Gly Leu Ser
85 90 95Ala Gly Met Ser Ile Ile Pro Thr Phe Pro Glu Ile Leu Ser Cys Ala
100 105 110His Glu Asn Gly Phe Glu Glu Gly Leu Ser Thr Leu Gly Leu Val Ser
115 120 125Gly Leu Phe Ser Ala Met Trp Ser Ile Gly Ala Phe Met Gly Pro Thr
130 135 140Leu Gly Gly Phe Leu Tyr Glu Lys Ile Gly Phe Glu Trp Ala Ala Ala
145 150 155 160Ile Gln Gly Leu Trp Ala Leu Ile Ser Gly Leu Ala Met Gly Leu Phe
165 170 175Tyr Leu Leu Glu Tyr Ser Arg Arg Lys Arg Ser Lys Ser Gln Asn Ile
180 185 190Leu Ser Thr Glu Glu Glu Arg Thr Thr Leu Leu Pro Asn Glu Thr
195 200 205

<210> 279

<211> 85

<212> PRT

<213> Homo sapiens

<400> 279

Gly Thr Arg Glu Ala Arg Leu Arg Asp Leu Thr Arg Phe Tyr Asp Lys
1 5 10 15Val Leu Ser Leu His Glu Asp Ser Thr Thr Pro Val Ala Asn Pro Leu
20 25 30Leu Ala Phe Thr Leu Ile Lys Arg Leu Gln Ser Asp Trp Arg Asn Val
35 40 45

Val His Ser Leu Glu Ala Ser Glu Asn Ile Arg Ala Leu Lys Asp Gly

50 55 60

Tyr Glu Lys Val Glu Gln Asp Leu Pro Ala Phe Glu Asp Leu Glu Gly
65 70 75 80

Ala Ala Arg Ala Leu
85

<210> 280

<211> 7

<212> PRT

<213> Homo sapiens

<400> 280

Ala Leu Met Arg Leu Gln Asp
1 5

<210> 281

<211> 7

<212> PRT

<213> Homo sapiens

<400> 281

Val Glu Ala Gly Gly Ala Thr
1 5

<210> 282

<211> 489

<212> PRT

<213> Homo sapiens

<400> 282

Gly Thr Arg Glu Ala Arg Leu Arg Asp Leu Thr Arg Phe Tyr Asp Lys
1 5 10 15

Val Leu Ser Leu His Glu Asp Ser Thr Thr Pro Val Ala Asn Pro Leu
20 25 30

Leu Ala Phe Thr Leu Ile Lys Arg Leu Gln Ser Asp Trp Arg Asn Val
35 40 45

Val His Ser Leu Glu Ala Ser Glu Asn Ile Arg Ala Leu Lys Asp Gly
50 55 60

Tyr Glu Lys Val Glu Gln Asp Leu Pro Ala Phe Glu Asp Leu Glu Gly
65 70 75 80

Ala Ala Arg Ala Leu Met Arg Leu Gln Asp Val Tyr Met Leu Asn Val
85 90 95

Lys Gly Leu Ala Arg Gly Val Phe Gln Arg Val Thr Gly Ser Ala Ile
100 105 110

Thr Asp Leu Tyr Ser Pro Lys Arg Leu Phe Ser Leu Thr Gly Asp Asp
115 120 125

Cys Phe Gln Val Gly Lys Val Ala Tyr Asp Met Gly Asp Tyr Tyr His
130 135 140

Ala Ile Pro Trp Leu Glu Glu Ala Val Ser Leu Phe Arg Gly Ser Tyr
145 150 155 160

Gly Glu Trp Lys Thr Glu Asp Glu Ala Ser Leu Glu Asp Ala Leu Asp
165 170 175

His Leu Ala Phe Ala Tyr Phe Arg Ala Gly Asn Val Ser Cys Ala Leu
180 185 190

Ser Leu Ser Arg Glu Phe Leu Leu Tyr Ser Pro Asp Asn Lys Arg Met
195 200 205

Ala Arg Asn Val Leu Lys Tyr Glu Arg Leu Leu Ala Glu Ser Pro Asn
210 215 220

His Val Val Ala Glu Ala Val Ile Gln Arg Pro Asn Ile Pro His Leu
225 230 235 240

Gln Thr Arg Asp Thr Tyr Glu Gly Leu Cys Gln Thr Leu Gly Ser Gln
245 250 255

Pro Thr Leu Tyr Gln Ile Pro Ser Leu Tyr Cys Ser Tyr Glu Thr Asn
260 265 270

Ser Asn Ala Tyr Leu Leu Leu Gln Pro Ile Arg Lys Glu Val Ile His
275 280 285

Leu Glu Pro Tyr Ile Ala Leu Tyr His Asp Phe Val Ser Asp Ser Glu
290 295 300

Ala Gln Lys Ile Arg Glu Leu Ala Glu Pro Trp Leu Gln Arg Ser Val
305 310 315 320

Val Ala Ser Gly Glu Lys Gln Leu Gln Val Glu Tyr Arg Ile Ser Lys
325 330 335

Ser Ala Trp Leu Lys Asp Thr Val Asp Leu Lys Leu Val Thr Leu Asn
340 345 350

His Arg Ile Ala Ala Leu Thr Gly Leu Asp Val Arg Pro Pro Tyr Ala
355 360 365

Glu Tyr Leu Gln Val Val Asn Tyr Gly Ile Gly Gly His Tyr Glu Pro
370 375 380

His Phe Asp His Ala Thr Ser Pro Ser Ser Pro Leu Tyr Arg Met Lys
385 390 395 400

Ser Gly Asn Arg Val Ala Thr Phe Met Ile Tyr Leu Ser Ser Val Glu
405 410 415

Ala Gly Gly Ala Thr Ala Phe Ile Tyr Ala Asn Leu Ser Val Pro Val
420 425 430

Val Arg Asn Ala Ala Leu Phe Trp Trp Asn Leu His Arg Ser Gly Glu
435 440 445

Gly Asp Ser Asp Thr Leu His Ala Gly Cys Pro Val Leu Val Gly Asp
450 455 460

Lys Trp Val Ala Asn Lys Trp Ile His Glu Tyr Gly Gln Glu Phe Arg
465 470 475 480

Arg Pro Cys Ser Ser Ser Pro Glu Asp
485

<210> 283

<211> 136

<212> PRT

<213> Homo sapiens

<400> 283

Ile Gln Pro Ser His Ala Ala Leu Leu His Cys Arg Ser Thr Phe Arg
1 5 10 15

Lys Thr Glu Cys Leu Asp Pro Trp Trp Val Arg Arg Gln Leu Leu Gly
20 25 30

Met Ala Gly Ile Gly Gly Leu Gln Lys Met Lys Ala Pro His Thr Gly
35 40 45

Val Leu His Leu Gly Ser Val Trp Val Phe Leu Gly Pro Phe Leu Leu
50 55 60

Gly Val Gly Tyr Thr Leu Thr Phe Asn Pro Leu Ser Gly Cys Met Ser
65 70 75 80

Thr Val Arg Trp Leu Asn Ser Asn Ile Thr Ala Asn Arg Thr Leu Ser
85 90 95

Arg Ser Val Cys His Val Thr Pro Leu His Arg Ser Leu Ser Pro His
100 105 110

Asp Gly Glu Tyr Leu Arg Gln Met Leu Leu Asn Ser Ser Ser Arg Ala
115 120 125

Gly Glu Ala Gly Ser Trp Gly Tyr
130 135

<210> 284

<211> 86

<212> PRT

<213> Homo sapiens

<400> 284

Cys Ser Ser Pro Pro Gly Arg Leu Pro Trp Cys Trp Thr Ala Pro Arg
1 5 10 15

Thr Leu Gly Lys His Gly Ser Leu Ile Ser Thr Leu Arg Leu Thr Ala
20 25 30

Pro Leu His Leu Ala Trp Lys Met Met Leu Ser Arg Lys Ala Leu Phe
35 40 45

Val Leu Leu Asn Thr Pro Val Leu Phe His Ala Leu Glu Gly Arg Leu
50 55 60

Phe Ser Lys Leu Cys His His His Thr Ile Gln Arg Thr Leu Thr Val
65 70 75 80

Pro Lys Phe Arg Ser Ser
85

<210> 285

<211> 75

<212> PRT

<213> Homo sapiens

<400> 285

Arg Ser Pro Thr Ser Arg Val Gln Leu Leu Lys Arg Gln Ser Cys Pro
1 5 10 15

Cys Gln Arg Asn Asp Leu Asn Glu Glu Pro Gln His Phe Thr His Tyr
20 25 30

Ala Ile Tyr Asp Phe Ile Val Lys Gly Ser Cys Phe Cys Asn Gly His
35 40 45

Ala Asp Gln Cys Ile Pro Val His Gly Phe Arg Pro Val Lys Ala Pro
50 55 60

Gly Thr Phe His Met Val His Gly Lys Cys Met
65 70 75

<210> 286

<211> 296

<212> PRT

<213> Homo sapiens

<400> 286

His Asn Thr Ala Gly Ser His Cys Gln His Cys Ala Pro Leu Tyr Asn
1 5 10 15

Asp Arg Pro Trp Glu Ala Ala Asp Gly Lys Thr Gly Ala Pro Asn Glu
20 25 30

Cys Arg Thr Cys Lys Cys Asn Gly His Ala Asp Thr Cys His Phe Asp
35 40 45

Val Asn Val Trp Glu Ala Ser Gly Asn Arg Ser Gly Gly Val Cys Asp
50 55 60

Asp Cys Gln His Asn Thr Glu Gly Gln Tyr Cys Gln Arg Cys Lys Pro
65 70 75 80

Gly Phe Tyr Arg Asp Leu Arg Arg Pro Phe Ser Ala Pro Asp Ala Cys
85 90 95

Lys Pro Cys Ser Cys His Pro Val Gly Ser Ala Val Leu Pro Ala Asn
100 105 110

Ser Val Thr Phe Cys Asp Pro Ser Asn Gly Asp Cys Pro Cys Lys Pro
115 120 125

Gly Val Ala Gly Arg Arg Cys Asp Arg Cys Met Val Gly Tyr Trp Gly
130 135 140

Phe Gly Asp Tyr Gly Cys Arg Pro Cys Asp Cys Ala Gly Ser Cys Asp
145 150 155 160

Pro Ile Thr Gly Asp Cys Ile Ser Ser His Thr Asp Ile Asp Trp Tyr
165 170 175

His Glu Val Pro Asp Phe Arg Pro Val His Asn Lys Ser Glu Pro Ala
180 185 190

Trp Glu Trp Glu Asp Ala Gln Gly Phe Ser Ala Leu Leu His Ser Gly
195 200 205

Lys Cys Glu Cys Lys Glu Gln Thr Leu Gly Asn Ala Lys Ala Phe Cys
210 215 220

Gly Met Lys Tyr Ser Tyr Val Leu Lys Ile Lys Ile Leu Ser Ala His
225 230 235 240

Asp Lys Gly Thr His Val Glu Val Asn Val Lys Ile Lys Lys Val Leu
245 250 255

Lys Ser Thr Lys Leu Lys Ile Phe Arg Gly Lys Ala Asn Ile Ile Ser
260 265 270

Arg Ile Met Asp Gly Gln Arg Met His Leu Ser Asn Pro Gln Ser Trp
275 280 285

Phe Gly Ile Pro Cys Ser Arg Thr
290 295

<210> 287

<211> 37

<212> PRT

<213> Homo sapiens

<400> 287

Cys Asp Asp Cys Gln His Asn Thr Glu Gly Gln Tyr Cys Gln Arg Cys
1 5 10 15

Lys Pro Gly Phe Tyr Arg Asp Leu Arg Arg Pro Phe Ser Ala Pro Asp
20 25 30

Ala Cys Lys Pro Cys
35

<210> 288

<211> 36

<212> PRT

<213> Homo sapiens

<400> 288

Cys	Pro	Cys	Lys	Pro	Gly	Val	Ala	Gly	Arg	Arg	Cys	Asp	Arg	Cys	Met
1															15

Val	Gly	Tyr	Trp	Gly	Phe	Gly	Asp	Tyr	Gly	Cys	Arg	Pro	Cys	Asp	Cys
															30

Ala	Gly	Ser	Cys												
															35

<210> 289

<211> 66

<212> PRT

<213> Homo sapiens

<400> 289

Asn	Ile	Ser	Ser	Gln	Tyr	Cys	Ile	Leu	Lys	Ser	Leu	Glu	Met	Met	Ile
1															15

Ser	Gly	Leu	Lys	Leu	Leu	Val	Leu	Phe	Leu	Lys	Phe	Ala	Pro	Glu	Asn
															30

Tyr	Cys	Leu	Ser	Thr	Glu	Thr	Leu	Gln	Met	Pro	Asn	Arg	His	Leu	Arg
															45

Leu	Ser	Lys	Ala	Thr	Cys	Tyr	Leu	Met	Lys	Cys	Leu	Leu	Pro	Ser	Tyr
															50
															55
															60

Phe Glu

65

<210> 290

<211> 88

<212> PRT

<213> Homo sapiens

<400> 290

Pro	Ile	Glu	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg
1															15

Pro	Thr	Arg	Pro	Gln	Arg	Met	Arg	Ser	Leu	Ile	Ser	Ser	His	Pro	Cys
															30

Gln	His	Leu	Phe	Leu	Ile	Leu	Ala	Ile							
															35
															40
															45

Leu	Val	Asp	Val	Lys	Trp	Tyr	Leu	Val	Leu	Phe	Ile	Cys	Ile	Ser	Leu
															50
															55
															60

Met	Thr	Ser	Asp	Val	Glu	His	Leu	Phe	Met	Cys	Leu	Leu	Ala	Ile	Arg
															65
															70
															75
															80

Ile	Ser	Ser	Trp	Arg	Asn	Val	Tyr								
															85

<210> 291

<211> 60
<212> PRT
<213> Homo sapiens

<400> 291
Asn Trp Val Pro Thr Cys Leu Cys Pro Ser Ala Pro Cys Ser Phe His
1 5 10 15
Leu Leu Ser Arg Phe Lys Cys Leu Phe Ser Pro Gln Arg Leu Thr Asp
20 25 30
Ile Phe Arg Arg Tyr Asp Thr Asp Gln Asp Gly Trp Ile Gln Val Ser
35 40 45
Tyr Glu Gln Tyr Leu Ser Met Val Phe Ser Ile Val
50 55 60

<210> 292
<211> 33
<212> PRT
<213> Homo sapiens

<400> 292
Gln Arg Leu Thr Asp Ile Phe Arg Arg Tyr Asp Thr Asp Gln Asp Gly
1 5 10 15
Trp Ile Gln Val Ser Tyr Glu Gln Tyr Leu Ser Met Val Phe Ser Ile
20 25 30
Val

<210> 293
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 293

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
1 5 10 15Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
20 25 30Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
35 40 45Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser
50 55 60Pro Pro Leu Xaa Ser Asp Pro Lys Arg
65 70

<210> 294

<211> 95

<212> PRT

<213> Homo sapiens

<400> 294

Thr Ser Ser Pro Val Phe Ser Phe Cys Ser Met Ala Val Arg Glu Pro
1 5 10 15Asp His Leu Gln Arg Val Ser Leu Pro Arg Tyr Asn Val Ser Ala Ser
20 25 30Leu Gln Trp Leu Pro Cys His Arg Ile Val Leu Gln Pro Trp His Met
35 40 45Cys Ala Met Trp Glu Leu Gly Gln Val Leu Phe His Pro Val Ala Pro
50 55 60Arg Glu Gly Ala Ala Pro Ser Pro Val Ser Thr Leu Thr Trp Pro Ser
65 70 75 80Ser Cys Ser His Ser Glu Ser Thr Met Glu Leu Glu Leu Gln Phe
85 90 95

<210> 295

<211> 16

<212> PRT

<213> Homo sapiens

<400> 295

Met Ala Val Arg Glu Pro Asp His Leu Gln Arg Val Ser Leu Pro Arg
1 5 10 15

<210> 296
<211> 7
<212> PRT
<213> Homo sapiens

<400> 296
Leu Pro Cys His Arg Ile Val
1 5

<210> 297
<211> 15
<212> PRT
<213> Homo sapiens

<400> 297
Ser Leu Gln Trp Leu Pro Cys His Arg Ile Val Leu Gln Pro Trp
1 5 10 15

<210> 298
<211> 454
<212> PRT
<213> Homo sapiens

<400> 298
Cys Phe Lys Arg Lys Pro Lys Arg Glu His Cys Ser Cys Pro Ile Thr
1 5 10 15

Tyr Gln Ser Leu Gly Asp Ile Leu Asn Ala Ser Phe Phe Ser Lys Arg
20 25 30

Lys Gly Met Gln Glu Val Lys Leu Asn Ser Tyr Val Val Ser Gly Thr
35 40 45

Ile Gly Leu Lys Glu Lys Ile Ser Leu Ser Glu Pro Val Phe Leu Thr
50 55 60

Phe Arg His Asn Gln Pro Gly Asp Lys Arg Thr Lys His Ile Cys Val
65 70 75 80

Tyr Trp Glu Gly Ser Glu Gly Gly Arg Trp Ser Thr Glu Gly Cys Ser
85 90 95

His Val His Ser Asn Gly Ser Tyr Thr Lys Cys Lys Cys Phe His Leu
100 105 110

Ser Ser Phe Ala Val Leu Val Ala Leu Ala Pro Lys Glu Asp Pro Val
115 120 125

Leu Thr Val Ile Thr Gln Val Gly Leu Thr Ile Ser Leu Leu Cys Leu
130 135 140

Phe Leu Ala Ile Leu Thr Phe Leu Leu Cys Arg Pro Ile Gln Asn Thr
145 150 155 160

Ser Thr Ser Leu His Leu Glu Leu Ser Leu Cys Leu Phe Leu Ala His
165 170 175

Leu Leu Phe Leu Thr Gly Ile Asn Arg Thr Glu Pro Glu Val Leu Cys
180 185 190

Ser Ile Ile Ala Gly Leu Leu His Phe Leu Tyr Leu Ala Cys Phe Thr
195 200 205

Trp Met Leu Leu Glu Gly Leu His Leu Phe Leu Thr Val Arg Asn Leu
210 215 220

Lys Val Ala Asn Tyr Thr Ser Thr Gly Arg Phe Lys Lys Arg Phe Met
225 230 235 240

Tyr Pro Val Gly Tyr Gly Ile Pro Ala Val Ile Ile Ala Val Ser Ala
245 250 255

Ile Val Gly Pro Gln Asn Tyr Gly Thr Phe Thr His Cys Trp Leu Lys
260 265 270

Leu Asp Lys Gly Phe Ile Trp Ser Phe Met Gly Pro Val Ala Val Ile
275 280 285

Ile Leu Ile Asn Leu Val Phe Tyr Phe Gln Val Leu Trp Ile Leu Arg
290 295 300

Ser Lys Leu Ser Ser Leu Asn Lys Glu Val Ser Thr Ile Gln Asp Thr
305 310 315 320

Arg Val Met Thr Phe Lys Ala Ile Ser Gln Leu Phe Ile Leu Gly Cys
325 330 335

Ser Trp Gly Leu Gly Phe Phe Met Val Glu Glu Val Gly Lys Thr Ile
340 345 350

Gly Ser Ile Ile Ala Tyr Ser Phe Thr Ile Ile Asn Thr Leu Gln Gly
355 360 365

Val Leu Leu Phe Val Val His Cys Leu Leu Asn Arg Gln Val Arg Met
370 375 380

Glu Tyr Lys Lys Trp Phe Ser Gly Met Arg Lys Gly Val Glu Thr Glu
385 390 395 400

Ser Thr Glu Met Ser Arg Ser Thr Thr Gln Thr Lys Thr Glu Glu Val
405 410 415

Gly Lys Ser Ser Glu Ile Phe His Lys Gly Gly Thr Ala Ser Ser Ser
420 425 430

Ala Glu Ser Thr Lys Gln Pro Gln Pro Gln Val His Leu Val Ser Ala
435 440 445

Ala Trp Leu Lys Met Asn
450

<210> 299
<211> 101
<212> PRT

<213> Homo sapiens

<400> 299

Phe Phe Trp Lys Glu Asn Leu Arg Arg Asn Gly Ser Arg Glu Asp Phe
1 5 10 15Ala Arg Arg Ala Thr Gln Leu Ile Gln Ser Val Glu Leu Ser Ile Trp
20 25 30Asn Ala Ser Phe Ala Ser Pro Gly Lys Gly Gln Ile Ser Glu Phe Asp
35 40 45Ile Val Tyr Glu Thr Lys Arg Cys Asn Glu Thr Arg Glu Asn Ala Phe
50 55 60Leu Glu Ala Gly Asn Asn Thr Met Asp Ile Asn Cys Ala Asp Ala Leu
65 70 75 80Lys Gly Asn Leu Arg Glu Ser Thr Ala Val Ala Leu Ser Leu Ile Asn
85 90 95Leu Leu Gly Ile Phe
100

<210> 300

<211> 27

<212> PRT

<213> Homo sapiens

<400> 300

Asp Ile Asn Glu Cys Glu Thr Gly Leu Ala Lys Cys Lys Tyr Lys Ala
1 5 10 15Tyr Cys Arg Asn Lys Val Gly Gly Tyr Ile Cys
20 25

<210> 301

<211> 12

<212> PRT

<213> Homo sapiens

<400> 301

Cys Arg Asn Lys Val Gly Gly Tyr Ile Cys Ser Cys
1 5 10

<210> 302

<211> 331

<212> PRT

<213> Homo sapiens

<400> 302

Ala Leu Cys Pro His Pro His Leu Ile Leu Asn Val Thr Val Ser Pro
1 5 10 15Ala Pro Ser Cys Arg His Val Lys Lys Val Val Ala Ser Pro Ser Pro
20 25 30

200

Ser Thr Thr Met Ile Ala Met Asp Ala Pro His Ser Lys Ala Ala Leu
35 40 45

Asp Ser Ile Asn Glu Leu Pro Glu Asn Ile Leu Leu Glu Leu Phe Thr
50 55 60

His Val Pro Ala Arg Gln Leu Leu Leu Asn Cys Arg Leu Val Cys Ser
65 70 75 80

Leu Trp Arg Asp Leu Ile Asp Leu Met Thr Leu Trp Lys Arg Lys Cys
85 90 95

Leu Arg Glu Gly Phe Ile Thr Lys Asp Trp Asp Gln Pro Val Ala Asp
100 105 110

Trp Lys Ile Phe Tyr Phe Leu Arg Ser Leu His Arg Asn Leu Leu Arg
115 120 125

Asn Pro Cys Ala Glu Glu Asp Met Phe Ala Trp Gln Ile Asp Phe Asn
130 135 140

Gly Gly Asp Arg Trp Lys Val Glu Ser Leu Pro Gly Ala His Gly Thr
145 150 155 160

Asp Phe Pro Asp Pro Lys Val Lys Tyr Phe Val Thr Ser Tyr Glu
165 170 175

Met Cys Leu Lys Ser Gln Leu Val Asp Leu Val Ala Glu Gly Tyr Trp
180 185 190

Glu Glu Leu Leu Asp Thr Phe Arg Pro Asp Ile Val Val Lys Asp Trp
195 200 205

Phe Ala Ala Arg Ala Asp Cys Gly Cys Thr Tyr Gln Leu Lys Val Gln
210 215 220

Leu Ala Ser Ala Asp Tyr Phe Val Leu Ala Ser Phe Glu Pro Pro Pro
225 230 235 240

Val Thr Ile Gln Gln Trp Asn Asn Ala Thr Trp Thr Glu Val Ser Tyr
245 250 255

Thr Phe Ser Asp Tyr Pro Arg Gly Val Arg Tyr Ile Leu Phe Gln His
260 265 270

Gly Gly Arg Asp Thr Gln Tyr Trp Ala Gly Trp Tyr Gly Pro Arg Val
275 280 285

Thr Asn Ser Ser Ile Val Val Ser Pro Lys Met Thr Arg Asn Gln Ala
290 295 300

Ser Ser Glu Ala Gln Pro Gly Gln Lys His Gly Gln Glu Glu Ala Ala
305 310 315 320

Gln Ser Pro Tyr Arg Ala Val Val Gln Ile Phe
325 330

<210> 303
<211> 328
<212> PRT
<213> Homo sapiens

<400> 303
Arg Gln Arg Ser Trp Asn Pro Gly Thr Asn Cys Tyr His Pro Asn Met
1 5 10 15
Pro Asp Ala Phe Leu Thr Cys Glu Thr Val Ile Phe Ala Trp Ala Ile
20 25 30
Gly Gly Glu Gly Phe Ser Tyr Pro Pro His Val Gly Leu Ser Leu Gly
35 40 45
Thr Pro Leu Asp Pro His Tyr Val Leu Leu Glu Val His Tyr Asp Asn
50 55 60
Pro Thr Tyr Glu Glu Gly Leu Ile Asp Asn Ser Gly Leu Arg Leu Phe
65 70 75 80
Tyr Thr Met Asp Ile Arg Lys Tyr Asp Ala Gly Val Ile Glu Ala Gly
85 90 95
Leu Trp Val Ser Leu Phe His Thr Ile Pro Pro Gly Met Pro Glu Phe
100 105 110
Gln Ser Glu Gly His Cys Thr Leu Glu Cys Leu Glu Glu Ala Leu Glu
115 120 125
Ala Glu Lys Pro Ser Gly Ile His Val Phe Ala Val Leu Leu His Ala
130 135 140
His Leu Ala Gly Arg Gly Ile Arg Leu Arg His Phe Arg Lys Gly Lys
145 150 155 160
Glu Met Lys Leu Leu Ala Tyr Asp Asp Phe Asp Phe Asn Phe Gln
165 170 175
Glu Phe Gln Tyr Leu Lys Glu Glu Gln Thr Ile Leu Pro Gly Asp Asn
180 185 190
Leu Ile Thr Glu Cys Arg Tyr Asn Thr Lys Asp Arg Ala Glu Met Thr
195 200 205
Trp Gly Gly Leu Ser Thr Arg Ser Glu Met Cys Leu Ser Tyr Leu Leu
210 215 220
Tyr Tyr Pro Arg Ile Asn Leu Thr Arg Cys Ala Ser Ile Pro Asp Ile
225 230 235 240
Met Glu Gln Leu Gln Phe Ile Gly Val Lys Glu Ile Tyr Arg Pro Val
245 250 255
Thr Thr Trp Pro Phe Ile Ile Lys Ser Pro Lys Gln Tyr Lys Asn Leu
260 265 270
Ser Phe Met Asp Ala Met Asn Lys Phe Lys Trp Thr Lys Lys Glu Gly
275 280 285

Leu Ser Phe Asn Lys Leu Val Leu Ser Leu Pro Val Asn Val Arg Cys
290 295 300

Ser Lys Thr Asp Asn Ala Glu Trp Ser Ile Pro Arg Asn Asp Ser Ile
305 310 315 320

Thr Ser Arg Tyr Arg Lys Thr Leu
325

<210> 304

<211> 272

<212> PRT

<213> Homo sapiens

<400> 304

Met Cys Cys Trp Pro Leu Leu Leu Leu Trp Gly Leu Leu Pro Gly Thr
1 5 10 15

Ala Ala Gly Gly Ser Gly Arg Thr Tyr Pro His Arg Thr Leu Leu Asp
20 25 30

Ser Glu Gly Lys Tyr Trp Leu Gly Trp Ser Gln Arg Gly Ser Gln Ile
35 40 45

Ala Phe Arg Leu Gln Val Arg Thr Ala Gly Tyr Val Gly Phe Gly Phe
50 55 60

Ser Pro Thr Gly Ala Met Ala Ser Ala Asp Ile Val Val Gly Gly Val
65 70 75 80

Ala His Gly Arg Pro Tyr Leu Gln Asp Tyr Phe Thr Asn Ala Asn Arg
85 90 95

Glu Leu Lys Lys Asp Ala Gln Gln Asp Tyr His Leu Glu Tyr Ala Met
100 105 110

Glu Asn Ser Thr His Thr Ile Ile Glu Phe Thr Arg Glu Leu His Thr
115 120 125

Cys Asp Ile Asn Asp Lys Ser Ile Thr Asp Ser Thr Val Arg Val Ile
130 135 140

Trp Ala Tyr His His Glu Asp Ala Gly Glu Ala Gly Pro Lys Tyr His
145 150 155 160

Asp Ser Asn Arg Gly Thr Lys Ser Leu Arg Leu Leu Asn Pro Glu Lys
165 170 175

Thr Ser Val Leu Ser Thr Ala Leu Pro Tyr Phe Asp Leu Val Asn Gln
180 185 190

Asp Val Pro Ile Pro Asn Lys Asp Thr Thr Tyr Trp Cys Gln Met Phe
195 200 205

Lys Ile Pro Val Phe Gln Glu Lys His His Val Ile Lys Val Glu Pro
210 215 220

Val Ile Gln Arg Gly His Glu Ser Leu Val His His Ile Leu Leu Tyr
225 230 235 240

Gln Cys Ser Asn Asn Phe Asn Asp Ser Val Pro Gly Ile Arg Ala Arg
245 250 255

Ile Ala Ile Thr Pro Thr Cys Pro Met His Ser Ser Pro Val Lys Leu
260 265 270

<210> 305

<211> 207

<212> PRT

<213> Homo sapiens

<400> 305

Thr Gly Thr Phe Trp Ser Pro Arg Ser Gln Arg Arg Gly Cys Cys Gly
1 5 10 15

Arg Arg Ala Pro Arg Pro Glu Ala Met Glu Asn Gly Ala Val Tyr Ser
20 25 30

Pro Thr Thr Glu Glu Asp Pro Gly Pro Ala Arg Gly Pro Arg Ser Gly
35 40 45

Leu Ala Ala Tyr Phe Phe Met Gly Arg Leu Pro Leu Leu Arg Arg Val
50 55 60

Leu Lys Gly Leu Gln Leu Leu Leu Ser Leu Leu Ala Phe Ile Cys Glu
65 70 75 80

Glu Val Val Ser Gln Cys Thr Leu Cys Gly Gly Leu Tyr Phe Phe Glu
85 90 95

Phe Val Ser Cys Ser Ala Phe Leu Leu Ser Leu Leu Ile Leu Ile Val
100 105 110

Tyr Cys Thr Pro Phe Tyr Glu Arg Val Asp Thr Thr Lys Val Lys Ser
115 120 125

Ser Asp Phe Tyr Ile Thr Leu Gly Thr Gly Cys Val Phe Leu Leu Ala
130 135 140

Ser Ile Ile Phe Val Ser Thr His Asp Arg Thr Ser Ala Glu Ile Ala
145 150 155 160

Ala Ile Val Phe Gly Phe Ile Ala Ser Phe Met Phe Leu Leu Asp Phe
165 170 175

Ile Thr Met Leu Tyr Glu Lys Arg Gln Glu Ser Gln Leu Arg Lys Pro
180 185 190

Glu Asn Thr Thr Arg Ala Glu Ala Leu Thr Glu Pro Leu Asn Ala
195 200 205

<210> 306
<211> 135
<212> PRT
<213> Homo sapiens

<400> 306
Ala Ser Ala Pro Arg Val Met Arg Gly His Leu Ala Gly Phe Pro Ala
1 5 10 15

Leu Ser Gly Leu Ala Ser Val Cys Leu Trp Ala Thr Phe Ser Ala Gln
20 25 30

Leu Pro Gly Pro Val Ala Ala Thr Ser Trp Thr Pro Ala Pro Leu Gly
35 40 45

Cys Ser Ala Ala Arg Ser Gly Pro Glu Lys Arg Leu Gly Thr Ala Ala
50 55 60

Pro Gly Ser Ala Ala Ser Leu Ala Gln Ala Gly Pro Gly Ala Pro Cys
65 70 75 80

Arg Val Leu Pro Val Asp Pro Ala Pro Ala Leu Asn Val Arg Glu
85 90 95

Pro Gly Trp Leu Gly Leu Phe Asp Gly Ala Leu Leu Gln Val Leu
100 105 110

Leu Asn Phe Leu Arg Lys Ser Thr Asp Val Leu Met Asp Thr Arg Glu
115 120 125

Ala Glu Ser Leu Glu Val Glu
130 135

<210> 307
<211> 188
<212> PRT
<213> Homo sapiens

<400> 307
Asn Lys Leu His Ser Phe Pro Val Phe Leu Ser Gln Leu Leu Asp
1 5 10 15

Arg Gln Leu Leu His Ala Pro Gln Thr Leu Pro Thr Pro His Cys Gly
20 25 30

Gly Ser Ser Arg Pro Gly Pro Ser His Pro Pro Trp Leu Leu Ile Gln
35 40 45

Leu Pro Cys Val His Val Ala Leu Trp Gln Met Leu Arg Asp Phe Ser
50 55 60

Asp Ser Arg Ile Thr Pro Ser Thr Leu Thr Thr Gln Pro Ala Ala Gln
65 70 75 80

Thr Ala Ala Pro Ala Lys Asp Gln Glu Ser Asp Ile Val Gly Gly Glu
85 90 95

Gly Ile Leu Cys Asp Ile Ala Phe Leu Gln Glu Asp His Pro Leu Gly

205

100

105

110

Val Gly Gly Ala Ser Ala Pro Ser Ser Arg Arg Glu Leu Ser Arg Arg
115 120 125

Gly Val His Thr Gln Thr Leu Pro Glu Asp Gly Thr Leu His Gly Thr
130 135 140

Pro Ser Ser Ser Phe Asp Cys Gly Ile Lys Tyr Ile Ile Ser Trp Pro
145 150 155 160

Leu Ala Pro Gly Cys Asp Leu Pro Ser Leu Glu Leu Ser Leu Val Cys
165 170 175

Lys Gly Val Ser Ser Cys Met Gly Phe Ala Ala Gly
180 185

<210> 308

<211> 78

<212> PRT

<213> Homo sapiens

<400> 308

Pro Gly Arg Pro Thr Arg Pro Thr Lys Asn Lys Val Cys Val Cys Leu
1 5 10 15

Gly Met Leu Phe Trp Ala Tyr Pro Ile Cys Val Phe Ile Asp Ser Leu
20 25 30

Ser Cys Gln Pro Cys Leu Trp Ser Thr Gly Ala Thr Ser His Phe Asn
35 40 45

Ser Pro Thr Thr Ser Pro Leu Phe Thr Leu Phe Met Pro Cys Ala Leu
50 55 60

Ala Pro Asn Pro Phe Thr Gln Leu Gly Lys Leu Asp Asp Arg
65 70 75

<210> 309

<211> 10

<212> PRT

<213> Homo sapiens

<400> 309

Pro Val Asp Leu Thr Lys Thr Arg Leu Gln
1 5 10

<210> 310

<211> 10

<212> PRT

<213> Homo sapiens

<400> 310

Pro Thr Asp Val Leu Lys Ile Arg Met Gln
1 5 10

<210> 311

<211> 313

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 311

Met Thr Phe Gly Ser Thr Ile Ser Pro Thr Ser Thr His Ala Ser Pro
1 5 10 15Ser Leu Gly Phe Cys Cys Ser Trp Leu Leu Glu Asp Leu Glu Glu Gln
20 25 30Leu Tyr Cys Ser Ala Phe Glu Glu Ala Ala Leu Thr Arg Arg Ile Cys
35 40 45Asn Pro Thr Ser Cys Trp Leu Pro Leu Asp Met Glu Leu Leu His Arg
50 55 60Gln Val Leu Ala Leu Gln Thr Gln Arg Val Leu Leu Gly Met Trp Leu
65 70 75 80Arg Arg Ala Trp Asp Thr Trp Val Ser Pro Arg Arg Val Ala Pro Gly
85 90 95Ser Arg Cys Leu Leu Thr Ala Ser His Pro Cys Thr Glu Lys Arg Arg
100 105 110Lys Ala Ser Ala Xaa Gln Arg Asn Leu Gly Tyr Pro Leu Ala Met Leu
115 120 125Cys Leu Leu Val Leu Thr Gly Leu Ser Val Leu Ile Val Ala Ile His
130 135 140Ile Leu Glu Leu Leu Ile Asp Glu Ala Ala Met Pro Arg Gly Met Gln
145 150 155 160Gly Thr Ser Leu Gly Gln Val Ser Phe Ser Lys Leu Gly Ser Phe Gly
165 170 175Ala Val Ile Gln Val Val Leu Ile Phe Tyr Leu Met Val Ser Ser Val
180 185 190Val Gly Phe Tyr Ser Ser Pro Leu Phe Arg Ser Leu Arg Pro Arg Trp
195 200 205His Asp Thr Ala Met Thr Gln Ile Ile Gly Asn Cys Val Cys Leu Leu
210 215 220Val Leu Ser Ser Ala Leu Pro Val Phe Ser Arg Thr Leu Gly Leu Thr
225 230 235 240Arg Phe Asp Leu Leu Gly Asp Phe Gly Arg Phe Asn Trp Leu Gly Asn
245 250 255

Phe Tyr Ile Val Phe Leu Tyr Asn Ala Ala Phe Ala Gly Leu Thr Thr
260 265 270

Leu Cys Leu Val Lys Thr Phe Thr Ala Ala Val Arg Ala Glu Leu Ile
275 280 285

Arg Ala Phe Gly Leu Asp Arg Leu Pro Leu Pro Val Ser Gly Phe Pro
290 295 300

Gln Ala Ser Arg Lys Thr Gln His Gln
305 310

<210> 312

<211> 92

<212> PRT

<213> Homo sapiens

<400> 312

Leu Cys Val Cys Leu Val Tyr Leu Cys Met Tyr Gly Val Cys Leu Cys
1 5 10 15

Val Ile Val Cys Val Ser Gly Val Ser Leu Cys Leu Tyr Val Trp Gly
20 25 30

Val Ser Val Cys Asp Cys Val Ser Val Phe Met Cys Val Cys Leu Cys
35 40 45

Val Ile Phe Cys Val Tyr Gly Lys Pro Arg Thr Glu His Tyr His Ser
50 55 60

Pro His Leu Ala Lys Gln Lys Ala Phe Arg Glu Met Cys Gly Arg His
65 70 75 80

Asp Val Ser Ala Ala Gly Ile Phe Gln Ser Tyr Val
85 90

<210> 313

<211> 207

<212> PRT

<213> Homo sapiens

<400> 313

Gly His Met Pro Tyr Gly Trp Leu Thr Glu Ile Arg Ala Val Tyr Pro
1 5 10 15

Ala Phe Asp Lys Asn Asn Pro Ser Asn Lys Leu Val Ser Thr Ser Asn
20 25 30

Thr Val Thr Ala Ala His Ile Lys Lys Phe Thr Phe Val Cys Met Ala
35 40 45

Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn Val Ser
50 55 60

Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe Ala Glu
65 70 75 80

Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val Pro Val
85 90 95

Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys Lys Thr
100 105 110

Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu Ile Ala
115 120 125

Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr Leu Gly
130 135 140

Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met Val Ala
145 150 155 160

Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met Glu Asn
165 170 175

Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met Pro Pro
180 185 190

Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn Glu
195 200 205

<210> 314
<211> 114
<212> PRT
<213> Homo sapiens

<400> 314
Gln Val Val Phe Val Ala Ile Leu Leu His Ser His Leu Glu Cys Arg
1 5 10 15

Glu Pro Leu Leu Ile Pro Ile Leu Ser Leu Tyr Met Gly Ala Leu Val
20 25 30

Arg Cys Thr Thr Leu Cys Leu Gly Tyr Tyr Lys Asn Ile His Asp Ile
35 40 45

Ile Pro Asp Arg Ser Gly Pro Glu Leu Gly Gly Asp Ala Thr Ile Arg
50 55 60

Lys Met Leu Ser Phe Trp Trp Pro Leu Ala Leu Ile Leu Ala Thr Gln
65 70 75 80

Arg Ile Ser Arg Pro Ile Val Asn Leu Phe Val Ser Arg Asp Leu Gly
85 90 95

Gly Ser Ser Ala Ala Thr Glu Ala Val Ala Ile Leu Thr Ala Thr Tyr
100 105 110

Pro Val

<210> 315
<211> 115

<212> PRT

<213> Homo sapiens

<400> 315

Arg Cys Cys Cys Arg Gly Cys Ser Cys Arg Ala Arg Leu Cys Pro Pro
1 5 10 15Ala Arg Ser Thr Ala Val Ala Pro Glu Cys Arg Gly Ala His Pro Ser
20 25 30Arg Ala Met Arg Pro Gly Thr Ala Leu Gln Ala Val Leu Leu Ala Val
35 40 45Leu Leu Val Gly Leu Arg Ala Ala Thr Gly Arg Leu Leu Ser Gly Gln
50 55 60Pro Val Cys Arg Gly Gly Thr Gln Arg Pro Cys Tyr Lys Val Ile Tyr
65 70 75 80Phe His Asp Thr Ser Arg Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala
85 90 95Cys Arg Arg Gly Trp Arg Pro Ala Ser Gln His Arg Val Leu Lys Met
100 105 110Asn Arg Asn
115

<210> 316

<211> 81

<212> PRT

<213> Homo sapiens

<400> 316

Met Arg Pro Gly Thr Ala Leu Gln Ala Val Leu Leu Ala Val Leu Leu
1 5 10 15Val Gly Leu Arg Ala Ala Thr Gly Arg Leu Leu Ser Gly Gln Pro Val
20 25 30Cys Arg Gly Gly Thr Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His
35 40 45Asp Thr Ser Arg Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala Cys Arg
50 55 60Arg Gly Trp Arg Pro Ala Ser Gln His Arg Val Leu Lys Met Asn Arg
65 70 75 80

Asn

<210> 317

<211> 290

<212> PRT

<213> Homo sapiens

<400> 317
Ile Arg His Glu Gln Gln Gly Glu Glu Asp Asp Glu His Ala Arg Pro
1 5 10 15
Leu Ala Glu Ser Leu Leu Ala Ile Ala Asp Leu Leu Phe Cys Pro
20 25 30
Asp Phe Thr Val Gln Ser His Arg Arg Ser Thr Val Asp Ser Ala Glu
35 40 45
Asp Val His Ser Leu Asp Ser Cys Glu Tyr Ile Trp Glu Ala Gly Val
50 55 60
Gly Phe Ala His Ser Pro Gln Pro Asn Tyr Ile His Asp Met Asn Arg
65 70 75 80
Met Glu Leu Leu Lys Leu Leu Leu Thr Cys Phe Ser Glu Ala Met Tyr
85 90 95
Leu Pro Pro Ala Pro Glu Ser Gly Ser Thr Asn Pro Trp Val Gln Phe
100 105 110
Phe Cys Ser Thr Glu Asn Arg His Ala Leu Pro Leu Phe Thr Ser Leu
115 120 125
Leu Asn Thr Val Cys Ala Tyr Asp Pro Val Gly Tyr Gly Ile Pro Tyr
130 135 140
Asn His Leu Leu Phe Ser Asp Tyr Arg Glu Pro Leu Val Glu Glu Ala
145 150 155 160
Ala Gln Val Leu Ile Val Thr Leu Asp His Asp Ser Ala Ser Ser Ala
165 170 175
Ser Pro Thr Val Asp Gly Thr Thr Gly Thr Ala Met Asp Asp Ala
180 185 190
Asp Pro Pro Gly Pro Glu Asn Leu Phe Val Asn Tyr Leu Ser Arg Ile
195 200 205
His Arg Glu Glu Asp Phe Gln Phe Ile Leu Lys Gly Ile Ala Arg Leu
210 215 220
Leu Ser Asn Pro Leu Leu Gln Thr Tyr Leu Pro Asn Ser Thr Lys Lys
225 230 235 240
Asp Pro Val Pro Pro Gly Ala Ala Ser Ser Leu Leu Glu Ala Leu Arg
245 250 255
Leu Gln Gln Glu Ile Pro Leu Leu Arg Ala Glu Glu Gln Arg Arg Pro
260 265 270
Arg His Pro Cys Pro His Pro Leu Leu Pro Gln Arg Cys Pro Gly Arg
275 280 285
Ser Val
290

<210> 318
<211> 318
<212> PRT
<213> Homo sapiens

<400> 318
Arg Leu Val Tyr Asn Lys Thr Ser Arg Ala Thr Gln Phe Pro Asp Gly
1 5 10 15
Val Asp Val Arg Val Pro Gly Phe Gly Lys Thr Phe Ser Leu Glu Phe
20 25 30
Leu Asp Pro Ser Lys Ser Ser Val Gly Ser Tyr Phe His Thr Met Val
35 40 45
Glu Ser Leu Val Gly Trp Gly Tyr Thr Arg Gly Glu Asp Val Arg Gly
50 55 60
Ala Pro Tyr Asp Trp Arg Arg Ala Pro Asn Glu Asn Gly Pro Tyr Phe
65 70 75 80
Leu Ala Leu Arg Glu Met Ile Glu Glu Met Tyr Gln Leu Tyr Gly
85 90 95
Pro Val Val Leu Val Ala His Ser Met Gly Asn Met Tyr Thr Leu Tyr
100 105 110
Phe Leu Gln Arg Gln Pro Gln Ala Trp Lys Asp Lys Tyr Ile Arg Ala
115 120 125
Phe Val Ser Leu Gly Ala Pro Trp Gly Gly Val Ala Lys Thr Leu Arg
130 135 140
Val Leu Ala Ser Gly Asp Asn Asn Arg Ile Pro Val Ile Gly Pro Leu
145 150 155 160
Lys Ile Arg Glu Gln Gln Arg Ser Ala Val Ser Thr Ser Trp Leu Leu
165 170 175
Pro Tyr Asn Tyr Thr Trp Ser Pro Glu Lys Val Phe Val Gln Thr Pro
180 185 190
Thr Ile Asn Tyr Thr Leu Arg Asp Tyr Arg Lys Phe Phe Gln Asp Ile
195 200 205
Gly Phe Glu Asp Gly Trp Leu Met Arg Gln Asp Thr Glu Gly Leu Val
210 215 220
Glu Ala Thr Met Pro Pro Gly Val Gln Leu His Cys Leu Tyr Gly Thr
225 230 235 240
Gly Val Pro Thr Pro Asp Ser Phe Tyr Tyr Glu Ser Phe Pro Asp Arg
245 250 255
Asp Pro Lys Ile Cys Phe Gly Asp Gly Asp Gly Thr Val Asn Leu Lys
260 265 270
Ser Ala Leu Gln Cys Gln Ala Trp Gln Ser Arg Gln Glu His Gln Val
275 280 285

Leu Leu Gln Glu Leu Pro Gly Ser Glu His Ile Glu Met Leu Ala Asn
290 295 300

Ala Thr Thr Leu Ala Tyr Leu Lys Arg Val Leu Leu Gly Pro
305 310 315

<210> 319

<211> 362

<212> PRT

<213> Homo sapiens

<400> 319

Met Asn Lys Glu Asp Lys Val Trp Asn Asp Cys Lys Gly Val Asn Lys
1 5 10 15

Leu Thr Asn Leu Glu Glu Gln Tyr Ile Ile Leu Ile Phe Gln Asn Gly
20 25 30

Leu Asp Pro Pro Ala Asn Met Val Phe Glu Ser Ile Ile Asn Glu Ile
35 40 45

Gly Ile Lys Asn Asn Ile Ser Asn Phe Phe Ala Lys Ile Pro Phe Glu
50 55 60

Glu Ala Asn Gly Arg Leu Val Ala Cys Thr Arg Thr Tyr Glu Glu Ser
65 70 75 80

Ile Lys Gly Ser Cys Gly Gln Lys Glu Asn Lys Ile Lys Thr Val Ser
85 90 95

Phe Glu Ser Lys Ile Gln Leu Arg Ser Lys Gln Glu Phe Gln Phe Phe
100 105 110

Asp Glu Glu Glu Thr Gly Glu Asn His Thr Ile Phe Ile Gly Pro
115 120 125

Val Glu Lys Leu Ile Val Tyr Pro Pro Pro Ala Lys Gly Gly Ile
130 135 140

Ser Val Thr Asn Glu Asp Leu His Cys Leu Asn Glu Gly Glu Phe Leu
145 150 155 160

Asn Asp Val Ile Ile Asp Phe Tyr Leu Lys Tyr Leu Val Leu Glu Lys
165 170 175

Leu Lys Lys Glu Asp Ala Asp Arg Ile His Ile Phe Ser Ser Phe Phe
180 185 190

Tyr Lys Arg Leu Asn Gln Arg Glu Arg Arg Asn His Glu Thr Thr Asn
195 200 205

Leu Ser Ile Gln Gln Lys Arg His Gly Arg Val Lys Thr Trp Thr Arg
210 215 220

His Val Asp Ile Phe Glu Lys Asp Phe Ile Phe Val Pro Leu Asn Glu
225 230 235 240

Ala Ala His Trp Phe Leu Ala Val Val Cys Phe Pro Gly Leu Glu Lys
 245 250 255

Pro Lys Tyr Glu Pro Asn Pro His Tyr His Glu Asn Ala Val Ile Gln
 260 265 270

Lys Cys Ser Thr Val Glu Asp Ser Cys Ile Ser Ser Ala Ser Glu
 275 280 285

Met Glu Ser Cys Ser Gln Asn Ser Ser Ala Lys Pro Val Ile Lys Lys
 290 295 300

Met Leu Asn Lys Lys His Cys Ile Ala Val Ile Asp Ser Asn Pro Gly
 305 310 315 320

Gln Glu Glu Ser Asp Pro Arg Tyr Lys Arg Asn Ile Cys Ser Val Lys
 325 330 335

Tyr Ser Val Lys Ile Asn His Thr Ala Ser Glu Asn Glu Glu Phe
 340 345 350

Asn Lys Gly Glu Ser Thr Ser Gln Lys Ser
 355 360

<210> 320

<211> 330

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 320

Met Ser Pro Leu Ser Ala Ala Arg Ala Leu Arg Val Tyr Ala Val
 1 5 10 15

Gly Ala Ala Val Ile Leu Ala Gln Leu Leu Arg Arg Cys Arg Gly Gly
 20 25 30

Phe Leu Glu Pro Val Xaa Pro Pro Arg Pro Asp Arg Val Ala Ile Val
 35 40 45

Thr Gly Gly Thr Asp Gly Ile Gly Tyr Ser Thr Ala Asn Ile Trp Arg
 50 55 60

Asp Leu Gly Met His Val Ile Ile Ala Gly Asn Asn Asp Ser Lys Ala
 65 70 75 80

Lys Gln Val Val Ser Lys Ile Lys Glu Glu Thr Leu Asn Asp Lys Val
 85 90 95

Glu Phe Leu Tyr Cys Asp Leu Ala Ser Met Thr Ser Ile Arg Gln Phe
100 105 110

Val Gln Lys Phe Lys Met Lys Ile Pro Leu His Val Leu Ile Asn
115 120 125

Asn Ala Gly Val Met Met Val Pro Gln Arg Lys Thr Arg Asp Gly Phe
130 135 140

Glu Glu His Phe Gly Leu Asn Tyr Leu Gly His Phe Leu Leu Thr Asn
145 150 155 160

Leu Leu Leu Asp Thr Leu Lys Glu Ser Gly Ser Pro Gly His Ser Ala
165 170 175

Arg Val Val Thr Val Ser Ser Ala Thr His Tyr Val Ala Glu Leu Asn
180 185 190

Met Asp Asp Leu Gln Ser Ser Ala Cys Tyr Ser Pro His Ala Ala Tyr
195 200 205

Ala Gln Ser Lys Leu Ala Leu Val Leu Phe Thr Tyr His Leu Gln Arg
210 215 220

Leu Leu Ala Ala Glu Gly Ser His Val Thr Ala Asn Val Val Asp Pro
225 230 235 240

Gly Val Val Asn Thr Asp Xaa Tyr Lys His Val Phe Trp Ala Thr Arg
245 250 255

Leu Ala Lys Lys Leu Leu Gly Trp Leu Leu Phe Lys Thr Pro Asp Glu
260 265 270

Gly Ala Trp Thr Ser Ile Tyr Ala Ala Val Thr Pro Glu Leu Glu Gly
275 280 285

Val Gly Gly Arg Tyr Leu Tyr Asn Glu Lys Glu Thr Lys Ser Leu His
290 295 300

Val Thr Tyr Asn Gln Lys Leu Gln Gln Leu Trp Ser Lys Ser Cys
305 310 315 320

Glu Met Thr Gly Val Leu Asp Val Thr Leu
325 330

<210> 321

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 321

Met Ser Pro Leu Ser Ala Ala Arg Ala Ala Leu Arg Val Tyr Ala Val
1 5 10 15

Gly Ala Ala Val Ile Leu Ala Gln Leu Leu Arg Arg Cys Arg Gly Gly
20 25 30

Phe Leu Glu Pro Val Xaa Pro Pro Arg Pro Asp Arg Val Ala Ile Val
35 40 45

Thr Gly Gly Thr Asp Gly Ile Gly Tyr Ser Thr Ala Asn Ile Trp Arg
50 55 60

Asp Leu Ala Cys Met Leu Ser
65 70

<210> 322

<211> 266

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 322

Met Glu Val Thr Thr Glu Asp Thr Ser Arg Thr Asp Val Ser Glu Pro
1 5 10 15

Ala Thr Ser Gly Gly Ala Ala Asp Gly Val Thr Ser Ile Ala Pro Thr
20 25 30

Ala Val Ala Ser Ser Thr Thr Ala Ala Ser Ile Thr Thr Ala Ala Ser
35 40 45

Ser Met Thr Val Ala Ser Ser Ala Pro Thr Thr Ala Ala Ser Ser Thr
50 55 60

Thr Val Ala Ser Ile Ala Pro Thr Thr Ala Ser Ser Met Thr Ala
65 70 75 80

Ala Ser Ser Thr Pro Met Thr Leu Ala Leu Pro Ala Pro Thr Ser Thr
 85 90 95
 Xaa Thr Gly Arg Thr Pro Ser Thr Thr Ala Thr Gly His Pro Ser Leu
 100 105 110
 Ser Thr Ala Leu Ala Gln Val Pro Lys Ser Ser Ala Leu Pro Arg Thr
 115 120 125
 Ala Thr Leu Ala Thr Leu Ala Thr Arg Ala Gln Thr Val Ala Thr Thr
 130 135 140
 Ala Asn Thr Ser Ser Pro Met Ser Thr Arg Pro Ser Pro Ser Lys His
 145 150 155 160
 Met Pro Ser Asp Thr Ala Ala Ser Pro Val Pro Pro Met Xaa Pro Gln
 165 170 175
 Ala Gln Gly Pro Ile Ser Gln Val Ser Val Asp Gln Pro Val Val Asn
 180 185 190
 Thr Thr Xaa Lys Ser Thr Xaa Met Pro Ser Asn Thr Thr Xaa Glu Pro
 195 200 205
 Leu Thr Gln Ala Val Val Asp Lys Thr Leu Leu Leu Val Val Leu Leu
 210 215 220
 Leu Gly Val Thr Leu Phe Ile Thr Val Leu Val Leu Phe Ala Leu Gln
 225 230 235 240
 Ala Tyr Glu Ser Tyr Lys Lys Lys Asp Tyr Thr Gln Val Asp Tyr Leu
 245 250 255
 Ile Asn Gly Met Tyr Ala Asp Ser Glu Met
 260 265

<210> 323

<211> 99

<212> PRT

<213> Homo sapiens

<400> 323

Ala Arg Cys Pro Glu Leu Pro Gly Leu Arg Cys Arg Pro Arg Pro Arg
 1 5 10 15

Ala Gly Pro Gln Ala Pro Ser Tyr Cys Pro Arg Ala Thr Arg Pro Pro
 20 25 30

Gly Ala Cys Cys Ala Arg Met Arg Leu Leu Leu Glu Trp Arg Val Tyr
 35 40 45

Leu Arg Leu Thr Cys Ala Thr Lys Asp Gly Met Ala Arg Glu Cys Pro
 50 55 60

Thr Thr Trp Leu Ser Pro Pro Ala Lys Pro Asp Phe Ala Gln Arg His
 65 70 75 80

Ser Val Lys Pro Thr Ala Leu Gln Gly Gly Arg Trp Ser Arg Leu Gly
85 90 95

Ala Ser Pro

<210> 324
<211> 96
<212> PRT
<213> Homo sapiens

<400> 324
Leu Pro Ala Thr Val Glu Phe Ala Val His Thr Phe Asn Gln Gln Ser
1 5 10 15

Lys Asp Tyr Tyr Ala Tyr Arg Leu Gly His Ile Leu Asn Ser Trp Lys
20 25 30

Glu Gln Val Glu Ser Lys Thr Val Phe Ser Met Glu Leu Leu Leu Gly
35 40 45

Arg Thr Arg Cys Gly Lys Phe Glu Asp Asp Ile Asp Asn Cys His Phe
50 55 60

Gln Glu Ser Thr Glu Leu Asn Asn Thr Phe Thr Cys Phe Phe Thr Ile
65 70 75 80

Ser Thr Arg Pro Trp Met Thr Gln Phe Ser Leu Leu Asn Lys Thr Cys
85 90 95

<210> 325
<211> 166
<212> PRT
<213> Homo sapiens

<400> 325
Leu Leu Trp Ala Arg Gly Leu Gly Arg Ala Lys Ser Ala Val Pro Thr
1 5 10 15

Val Ser Thr Met Leu Gly Leu Pro Trp Lys Gly Gly Leu Ser Trp Ala
20 25 30

Leu Leu Leu Leu Leu Gly Ser Gln Ile Leu Leu Ile Tyr Ala Trp
35 40 45

His Phe His Glu Gln Arg Asp Cys Asp Glu His Asn Val Met Ala Arg
50 55 60

Tyr Leu Pro Ala Thr Val Glu Phe Ala Val His Thr Phe Asn Gln Gln
65 70 75 80

Ser Lys Asp Tyr Tyr Ala Tyr Arg Leu Gly His Ile Leu Asn Ser Trp
85 90 95

Lys Glu Gln Val Glu Ser Lys Thr Val Phe Ser Met Glu Leu Leu Leu
100 105 110

Gly Arg Thr Arg Cys Gly Lys Phe Glu Asp Asp Ile Asp Asn Cys His
115 120 125

Phe Gln Glu Ser Thr Glu Leu Asn Asn Thr Phe Thr Cys Phe Phe Thr
130 135 140

Ile Ser Thr Arg Pro Trp Met Thr Gln Phe Ser Leu Leu Asn Lys Thr
145 150 155 160

Cys Leu Glu Gly Phe His
165

<210> 326

<211> 214

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 326

Leu Glu Gln Lys Leu Glu Leu His Arg Gly Gly Arg Ser Arg Thr
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Glu Glu Arg Gly
20 25 30

Glu Gly Glu Gln Arg Thr Gly Arg Glu Phe Ser Gly Asn Gly Gly Arg
35 40 45

Ala Val Glu Ala Ala Arg Met Arg Leu Leu Cys Gly Leu Trp Leu Trp
50 55 60

Leu Ser Leu Leu Lys Val Leu Gln Ala Gln Thr Pro Thr Pro Leu Pro
65 70 75 80

Leu Pro Pro Pro Met Gln Ser Phe Gln Gly Asn Gln Phe Gln Gly Glu
85 90 95

Trp Phe Val Leu Gly Leu Ala Gly Asn Ser Phe Arg Pro Glu His Arg
100 105 110

Ala Leu Leu Asn Ala Phe Thr Ala Thr Phe Glu Leu Ser Asp Asp Gly
115 120 125

Arg Phe Glu Val Trp Asn Ala Met Thr Arg Gly Gln His Cys Asp Thr
130 135 140

Trp Ser Tyr Val Leu Ile Pro Ala Ala Gln Pro Gly Gln Phe Thr Val
145 150 155 160

Asp His Gly Val Gly Arg Ser Trp Leu Leu Pro Pro Gly Thr Leu Asp
165 170 175

Gln Phe Ile Cys Leu Gly Arg Ala Gln Gly Leu Ser Asp Asp Asn Ile
180 185 190

Val Phe Pro Asp Val Thr Gly Xaa Ala Leu Asp Leu Xaa Ser Leu Pro
195 200 205

Trp Val Ala Ala Pro Ala
210

<210> 327

<211> 181

<212> PRT

<213> Homo sapiens

<400> 327

Met Cys Val Cys Glu Arg Lys Arg Gly Arg Glu Lys Glu Gly Gly Val
1 5 10 15

Thr Pro Thr Met Thr Ser Asn Phe Pro Phe Cys Thr Leu Ile Leu Gly
20 25 30

Ile Ala Gln Ala Gln Ala Cys Pro Gly Cys Pro Gly Asp Trp Pro Gly
35 40 45

Leu Gly Ser Gly Val Gly Glu Gly Leu His His Ile Arg Thr Cys Arg
50 55 60

Thr Pro Ile Pro Cys Ser Pro Pro Ala Pro Ala Ala Cys Leu Gly
65 70 75 80

Ser Gly His Ala Arg Leu Pro Cys Val Leu Arg Leu Trp Pro Val Pro
85 90 95

Ala Asn Leu Ser Ser Pro Phe Arg Leu Glu Ala Leu His Cys Ser Phe
100 105 110

Trp Ser Ser Pro Leu Leu Pro Ala Pro His Leu Ala Phe Phe Gly Phe
115 120 125

Arg Asp Leu Leu Thr Asp Phe Leu Leu Ala Ala Cys Leu Leu Thr Phe
130 135 140

Gln Lys Thr Pro Leu Glu Leu Pro Met Ala Val Val His Leu Leu Val
145 150 155 160

Ala Thr Pro Cys Tyr Gln Met Leu Asp Asn Leu Pro Leu Pro Ser Ala
165 170 175

Ala Ala Asn Trp Cys
180

<210> 328
<211> 195
<212> PRT
<213> Homo sapiens

<400> 328
Tyr Leu Trp Gly Arg Pro Arg Leu Arg Met Arg Ala Gly Thr Ser Pro
1 5 10 15

Ser Ala Pro Trp Gly Glu Lys Arg Glu Lys Leu Gly His Lys Leu Pro
20 25 30

Val Ala Leu Gln Gly Tyr His Pro Trp Ile Leu Leu Glu Cys Thr Val
35 40 45

Phe Trp Ala Arg Val Val Leu Ala Cys Phe Ser Leu Tyr Leu Ile Arg
50 55 60

Gly Pro Asn Cys Ile Asn Arg Gln Pro Glu Pro Thr Tyr Gln Lys Ala
65 70 75 80

Cys Asn Leu Asp Cys Ser Ser Asp Phe Gly Gln Glu Arg Ala Pro Ala
85 90 95

Trp Glu Leu Leu Gly Pro Glu Ser Glu Gln Arg Leu Arg Glu Tyr Thr
100 105 110

Ala Gln Gly Leu Gln Ser Leu Ala Ser Ser His Arg Trp Arg Gln Phe
115 120 125

Lys Thr Glu Gly Lys Met Arg Gly Gly Ala Ser Pro Leu Pro Trp Leu
130 135 140

Ile Cys Phe Trp Leu Cys Ser Tyr Lys Gly Ser Asp Asn Ser Leu Lys
145 150 155 160

Pro Val Val Pro Gly Pro Thr Leu Cys Pro Gln Ser Leu Val Ser Pro
165 170 175

Ser Val His Pro Ser Thr Arg Ser Ala Ser Leu Gly Arg His Arg Ala
180 185 190

Glu Ala Ala
195

<210> 329
<211> 50
<212> PRT
<213> Homo sapiens

<400> 329
Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys Leu Ser
1 5 10 15

Leu Leu Gln Gly Phe Arg Leu Leu Leu Cys Val Cys Pro Gly Trp
20 25 30

Leu Ser Gly Trp Met Gly Gly Gln Lys Gly Ser Pro Arg Ile Val Asp

35

40

45

Ile Gly
50<210> 330
<211> 90
<212> PRT
<213> Homo sapiens<400> 330
Ala Lys Gly Glu Glu Arg Lys Glu Ala Phe Ser Leu Lys Met Val Gln
1 5 10 15Leu Ser Ser Glu Pro Ile Ser Phe Gly Leu Met Tyr Leu Tyr Leu Gly
20 25 30Val Phe Phe His Leu Ile Tyr Pro Gly Ala Leu Ser Ile Thr Thr Leu
35 40 45Gly Lys His Ser His Pro Phe Phe Thr Ala Glu Gin Asn Ser Thr Val
50 55 60Trp Met Glu His Thr Leu Phe His Gln Ser Pro Val Ala Ser His Leu
65 70 75 80Val Cys Phe Gln Ser Phe Ala Phe Ser Glu
85 90<210> 331
<211> 56
<212> PRT
<213> Homo sapiens<400> 331
Gly Pro Ala His Pro Ala Ser Pro Pro Leu Met Thr Leu Ser Leu Gln
1 5 10 15Leu Ala Glu Leu Val His Phe Val Cys Ala Phe Gln Ser Gln Trp Thr
20 25 30Gly Val Tyr Pro Met Met Pro Pro Leu Lys Pro Thr Glu Pro Leu Cys
35 40 45Phe Ala Cys Val Pro Cys Arg Val
50 55<210> 332
<211> 18
<212> PRT
<213> Homo sapiens<400> 332
Met Leu Leu Glu Val Tyr Gly Asp Ser Ile Ser Val Thr Val Ala Ile
1 5 10 15

Pro Leu

<210> 333
<211> 19
<212> PRT
<213> Homo sapiens

<400> 333
Met His Ser Pro Cys Gln Ser Lys Ala Ala Asp Gly Leu Gly Lys Ser
1 5 10 15

Glu Thr Glu

<210> 334
<211> 10
<212> PRT
<213> Homo sapiens

<400> 334
Met Leu Lys Ser Leu Gly Leu Ser Thr Asn
1 5 10

<210> 335
<211> 200
<212> PRT
<213> Homo sapiens

<400> 335
Ala Gln Arg Leu Ala Glu Glu Cys Phe Tyr Met Leu Leu Glu Val Tyr
1 5 10 15

Gly Asp Ser Ile Ser Val Thr Val Ala Ile Pro Leu Met His Ser Pro
20 25 30

Cys Gln Ser Lys Ala Ala Asp Gly Leu Gly Lys Ser Glu Thr Glu Met
35 40 45

Leu Lys Ser Leu Gly Leu Ser Thr Asn Met Ser Pro Phe His Leu Leu
50 55 60

Gly Leu Lys Val Phe Leu Thr Trp Ala Leu Thr Leu Ala Gln Ile Cys
65 70 75 80

Leu Tyr Phe Phe Glu Val Gln Pro Leu Gly Leu Leu Ala Leu Asn Phe
85 90 95

Phe Cys Thr Ala Thr Ala Gly Leu Lys Glu Leu Cys Met His Pro Pro
100 105 110

Ser Leu Ala Phe Thr Pro Glu Phe His Thr Ser Leu Ser Pro Leu Ala
115 120 125

Ile Pro Ser Phe Cys Gly Thr Ser Val Ser Leu Ser Asn Ser His Thr
130 135 140

Ile Pro Leu Ser Leu Tyr Leu Pro Phe Pro Ser Lys Ser Arg Met Pro
145 150 155 160

Asp Thr Leu His Leu Leu Val His Ser Leu Pro Leu Val His Ser Gln
165 170 175

Val Leu Pro Val Lys Asp Val Thr Ile Glu Trp Pro Leu Cys Gln Arg
180 185 190

Cys Leu Gly Ser Thr Cys His Gln
195 200

<210> 336

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 336

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Val Gln Val Ser Leu
1 5 10 15

Phe Gln Met Phe Cys Phe Ser Ser Ile Phe Cys Ser His Glu His Thr
20 25 30

His Leu Pro Gly Thr Phe Trp Leu Phe Leu Phe Leu Phe Leu Ile Leu
35 40 45

Pro Pro Ser Cys Pro Cys Phe Leu Pro Phe Ser Leu Ala Ile Glu Thr
50 55 60

Val Arg Trp Pro Cys Trp His His Pro Thr Ser Phe Glu Leu Cys Tyr
65 70 75 80

Pro Gly Thr Ser Ile Tyr Tyr Ala Ser Arg Gly Gly Pro Xaa Pro Asn
85 90 95

Ser Glu Xaa

<210> 337

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 337

Xaa Asn Xaa Lys Ser Pro Leu Thr Ile Gly Asn Lys Ser Trp Ser Ser
1 5 10 15Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg
20 25 30Asn Ser Ala Arg Asp Ser Pro Glu Leu Val His Leu Gly Lys Gly Arg
35 40 45Pro Arg Lys Leu Met Thr Tyr Leu Phe Cys Ser Ser Ile Ser Leu Leu
50 55 60Leu Leu Lys Val His Ser Ser Gly His Gln Asp Ile Arg Lys Ala Lys
65 70 75 80Ser Lys Val Pro Arg Leu Leu Ile Ile Gln Cys Pro Gln Gln Arg Glu
85 90 95

<210> 338

<211> 54

<212> PRT

<213> Homo sapiens

<400> 338

Gly Pro Glu Glu Asn Leu Ser Pro Ser Thr Pro Ser Gln Met Pro Thr
1 5 10 15Ile Trp Val Lys Leu Cys Leu Leu Gln Val Cys His Gly Leu Phe Pro
20 25 30Leu Leu Lys His Trp Ser Gln Pro Met Pro Leu Cys Val Thr Leu Ala
35 40 45Pro Val Ser Tyr Trp Leu
50

<210> 339

<211> 287

<212> PRT

<213> Homo sapiens

<400> 339

Pro Arg Val Arg Lys Glu Pro Glu Ala Met Gln Trp Leu Arg Val Arg
1 5 10 15

Glu Ser Pro Gly Glu Ala Thr Gly His Arg Val Thr Met Gly Thr Ala
20 25 30

Ala Leu Gly Pro Val Trp Ala Ala Leu Leu Leu Phe Leu Leu Met Cys
35 40 45

Glu Ile Pro Met Val Glu Leu Thr Phe Asp Arg Ala Val Ala Ser Asp
50 55 60

Cys Gln Arg Cys Cys Asp Ser Glu Asp Pro Leu Asp Pro Ala His Val
65 70 75 80

Ser Ser Ala Ser Ser Ser Gly Arg Pro His Ala Leu Pro Glu Ile Arg
85 90 95

Pro Tyr Ile Asn Ile Thr Ile Leu Lys Gly Asp Lys Gly Asp Pro Gly
100 105 110

Pro Met Gly Leu Pro Gly Tyr Met Gly Arg Glu Gly Pro Gln Gly Glu
115 120 125

Pro Gly Pro Gln Gly Ser Lys Gly Asp Lys Gly Glu Met Gly Ser Pro
130 135 140

Gly Ala Pro Cys Gln Lys Arg Phe Phe Ala Phe Ser Val Gly Arg Lys
145 150 155 160

Thr Ala Leu His Ser Gly Glu Asp Phe Gln Thr Leu Leu Phe Glu Arg
165 170 175

Val Phe Val Asn Leu Asp Gly Cys Phe Asp Met Ala Thr Gly Gln Phe
180 185 190

Ala Ala Pro Leu Arg Gly Ile Tyr Phe Phe Ser Leu Asn Val His Ser
195 200 205

Trp Asn Tyr Lys Glu Thr Tyr Val His Ile Met His Asn Gln Lys Glu
210 215 220

Ala Val Ile Leu Tyr Ala Gln Pro Ser Glu Arg Ser Ile Met Gln Ser
225 230 235 240

Gln Ser Val Met Leu Asp Leu Ala Tyr Gly Asp Arg Val Trp Val Arg
245 250 255

Leu Phe Lys Arg Gln Arg Glu Asn Ala Ile Tyr Ser Asn Asp Phe Asp
260 265 270

Thr Tyr Ile Thr Phe Ser Gly His Leu Ile Lys Ala Glu Asp Asp
275 280 285

<210> 340
<211> 339
<212> PRT
<213> Homo sapiens

<400> 340
Met Leu Tyr Pro Gly Ser Val Tyr Leu Leu Gln Lys Ala Leu Met Pro

1	5	10	15
Val	Leu	Leu	Gln
Gly	Gln	Ala	Arg
Leu	Val	Glu	Glu
20	25	30	
Arg	Ala	Lys	Leu
Leu	Ala	Cys	Asp
Gly	Asn	Glu	Ile
35	40	45	
Val	Asp	Arg	Arg
Gly	Thr	Ala	Glu
Pro	Gln	Gly	Gln
50	55	60	
Cys	Cys	Glu	Gly
Asn	Ala	Gly	Phe
Tyr	Glu	Val	Gly
65	70	75	80
Pro	Leu	Glu	Ala
Gly	Tyr	Ser	Val
Leu	Gly	Trp	Asn
85	90	95	
Ala	Gly	Ser	Thr
Gly	Val	Pro	Phe
Pro	Gln	Asn	Glu
100	105	110	
Asp	Val	Val	Val
Gln	Phe	Ala	Ile
His	Arg	Leu	Gly
115	120	125	
Asp	Ile	Ile	Ile
Tyr	Ala	Trp	Ser
Ile	Gly	Gly	Phe
130	135	140	
Ala	Ala	Met	Ser
Tyr	Pro	Asp	Val
145	150	155	160
Phe	Asp	Asp	Leu
Val	Pro	Leu	Ala
Lys	Leu	Ile	Asp
165	170	175	
Arg	Gly	Leu	Val
Thr	Arg	Thr	Val
180	185	190	
Ala	Glu	Gln	Leu
Cys	Arg	Tyr	Gln
195	200	205	
Thr	Lys	Asp	Glu
Ile	Ile	Ile	Thr
Thr	Thr	Val	Pro
210	215	220	
Asn	Arg	Gly	Asn
Asn	Asp	Leu	Leu
Lys	Leu	Ile	Gln
225	230	235	240
Arg	Val	Met	Ala
Glu	Glu	Gly	Leu
245	250	255	
Ala	Ser	Ser	Gln
Gln	Leu	Glu	Glu
260	265	270	
Glu	Glu	Asp	Trp
Trp	Cys	Leu	Ser
275	280	285	
Gly	Pro	Asp	Phe
Pro	Trp	Ser	Val
Gly	Glu	Asp	Asp
290	295	300	
Arg	Arg	Gln	Leu
Leu	Ala	Phe	Leu
305	310	315	320
Arg	Arg	Lys	His
His	Leu	His	Asn
			Phe

Glu Ala Thr His Cys Thr Pro Leu Pro Ala Gln Asn Phe Gln Met Pro
325 330 335

Trp His Leu

<210> 341
<211> 127
<212> PRT
<213> Homo sapiens

<400> 341
Val Cys Pro Lys Trp Cys Arg Phe Leu Thr Met Leu Gly His Cys Cys
1 5 10 15

Tyr Phe Trp Gln Val Trp Pro Ala Ser Glu Ala Leu Ala Ala Gly Pro
20 25 30

Thr Pro Ser Thr Gly Ser Ser Ser Pro Ser Trp Lys Gln His Ile Gly
35 40 45

Thr Ser Leu Gln Lys Thr Arg Gly Ser Leu Pro Thr Thr Leu Thr
50 55 60

Ser Gly Ala Gly Gln Ser Thr Ser Thr Gly Lys Asn Pro Ala Ala Gly
65 70 75 80

Arg Ser Leu Glu Gly Ala Leu Pro Ala Gly Val Trp Pro Cys Phe Ala
85 90 95

Gln Ser Pro Cys Thr Gly Gly Gln Gln Thr Pro Ser Ser Thr Gly Leu
100 105 110

Arg Ser Cys Leu Val Arg Ser Pro Ala Thr Trp Trp Arg Thr Pro
115 120 125

<210> 342
<211> 554
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 342
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Ile Tyr Arg Glu Xaa
1 5 10 15

Asp Ser Glu Arg Ala Pro Ala Ser Val Pro Glu Thr Pro Thr Ala Val
20 25 30

Thr Ala Pro His Ser Ser Ser Trp Asp Thr Tyr Tyr Gln Pro Arg Ala
35 40 45

Leu Glu Lys His Ala Asp Ser Ile Leu Ala Leu Ala Ser Val Phe Trp
50 55 60

Ser Ile Ser Tyr Tyr Ser Ser Pro Phe Ala Phe Phe Tyr Leu Tyr Arg
65 70 75 80

Lys Gly Tyr Leu Ser Leu Ser Lys Val Val Pro Phe Ser His Tyr Ala
85 90 95

Gly Thr Leu Leu Leu Leu Ala Gly Val Ala Cys Xaa Arg Gly Ile
100 105 110

Gly Arg Trp Thr Asn Pro Gln Tyr Arg Gln Phe Ile Thr Ile Leu Glu
115 120 125

Ala Thr His Arg Asn Gln Ser Ser Glu Asn Lys Arg Gln Leu Ala Asn
130 135 140

Tyr Asn Phe Asp Phe Arg Ser Trp Pro Val Asp Phe His Trp Glu Glu
145 150 155 160

Pro Ser Ser Arg Lys Glu Ser Arg Gly Gly Pro Ser Arg Arg Gly Val
165 170 175

Ala Leu Leu Arg Pro Glu Pro Leu His Arg Gly Thr Ala Asp Thr Leu
180 185 190

Leu Asn Arg Val Lys Lys Leu Pro Cys Gln Ile Thr Ser Tyr Leu Val
195 200 205

Ala His Thr Leu Gly Arg Arg Met Leu Tyr Pro Gly Ser Val Tyr Leu
210 215 220

Leu Gln Lys Ala Leu Met Pro Val Leu Leu Gln Gly Gln Ala Arg Leu
225 230 235 240

Val Glu Glu Cys Asn Gly Arg Arg Ala Lys Leu Leu Ala Cys Asp Gly
245 250 255

Asn Glu Ile Asp Thr Met Phe Val Asp Arg Arg Gly Thr Ala Glu Pro
260 265 270

Gln Gly Gln Lys Leu Val Ile Cys Cys Glu Gly Asn Ala Gly Phe Tyr
275 280 285

Glu Val Gly Cys Val Ser Thr Pro Leu Glu Ala Gly Tyr Ser Val Leu
290 295 300

Gly Trp Asn His Pro Gly Phe Ala Gly Ser Thr Gly Val Pro Phe Pro
305 310 315 320

Gln Asn Glu Ala Asn Ala Met Asp Val Val Val Gln Phe Ala Ile His
325 330 335

Arg Leu Gly Phe Gln Pro Gln Asp Ile Ile Tyr Ala Trp Ser Ile

340

345

350

Gly Gly Phe Thr Ala Thr Trp Ala Ala Met Ser Tyr Pro Asp Val Ser
355 360 365

Ala Met Ile Leu Asp Ala Ser Phe Asp Asp Leu Val Pro Leu Ala Leu
370 375 380

Lys Val Met Pro Asp Ser Trp Arg Gly Leu Val Thr Arg Thr Val Arg
385 390 395 400

Gln His Leu Asn Leu Asn Asn Ala Glu Gln Leu Cys Arg Tyr Gln Gly
405 410 415

Pro Val Leu Leu Ile Arg Arg Thr Lys Asp Glu Ile Ile Thr Thr Thr
420 425 430

Val Pro Glu Asp Ile Met Ser Asn Arg Gly Asn Asp Leu Leu Leu Lys
435 440 445

Leu Leu Gln His Arg Tyr Pro Arg Val Met Ala Glu Glu Gly Leu Arg
450 455 460

Val Val Arg Gln Trp Leu Glu Ala Ser Ser Gln Leu Glu Glu Ala Ser
465 470 475 480

Ile Tyr Ser Arg Trp Glu Val Glu Glu Asp Trp Cys Leu Ser Val Leu
485 490 495

Arg Ser Tyr Gin Ala Glu His Gly Pro Asp Phe Pro Trp Ser Val Gly
500 505 510

Glu Asp Met Ser Ala Asp Gly Arg Arg Gln Leu Ala Leu Phe Leu Ala
515 520 525

Arg Lys His Leu His Asn Phe Glu Ala Thr His Cys Thr Pro Leu Pro
530 535 540

Ala Gln Asn Phe Gln Met Pro Trp His Leu
545 550

<210> 343

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 343

His Glu Arg Ala Xaa Gly Pro Ser Arg Gly His Gly Glu Leu Leu Ser
1 5 10 15

Cys Val Leu Gly Pro Arg Leu Tyr Lys Ile Tyr Arg Glu Arg Asp Ser
20. 25 30

Glu Arg Ala Pro Ala Ser Val Pro Glu Thr Pro Thr Ala Val Thr Ala
35 40 45

Pro His Ser Ser Ser Trp Asp Thr Tyr Tyr Gln Pro Arg Ala Leu Glu
50 55 60

Lys His Ala Asp Ser Ile Leu Ala Leu Ala Ser Val Phe Trp Ser Ile
65 70 75 80

Ser Tyr Tyr Ser Ser Pro Phe Ala Phe Phe Tyr Leu Tyr Arg Lys Gly
85 90 95

Tyr Leu Ser Leu Ser Lys Val Val Pro Phe Ser His Tyr Ala Gly Thr
100 105 110

Leu Leu Leu Leu Ala Gly Val Ala Cys Ser Glu Ala Leu Ala Ala
115 120 125

Gly Pro Thr Pro Ser Thr Gly Ser Ser Ser Pro Ser Trp Lys Gln His
130 135 140

Ile Gly Thr Ser Leu Gln Lys Thr Arg Gly Ser Leu Pro Thr Thr Thr
145 150 155 160

Leu Thr Ser Gly Ala Gly Gln Ser Thr Ser Thr Gly Lys Asn Pro Ala
165 170 175

Ala Gly Arg Ser Leu Glu Gly Ala Leu Pro Ala Gly Val Trp Pro Cys
180 185 190

Phe Ala Gln Ser Pro Cys Thr Gly Gly Gln Gln Thr Pro Ser Ser Thr
195 200 205

Gly Leu Arg Ser Cys Leu Val Arg Ser Pro Ala Thr Trp Trp Arg Thr
210 215 220

Pro
225

<210> 344
<211> 299
<212> PRT
<213> Homo sapiens

<400> 344
Met Phe Lys Arg His Gln Arg Leu Lys Lys Asp Ser Thr Gln Ala Glu
1 5 10 15

Glu Asp Leu Ser Glu Gln Glu Gln Asn Gln Leu Asn Val Leu Lys Lys
20 25 30

His Gly Tyr Val Val Gly Arg Val Gly Arg Thr Phe Leu Tyr Ser Glu
35 40 45

Glu Gln Lys Asp Asn Ile Pro Phe Glu Phe Asp Ala Asp Ser Leu Ala
50 55 60

Phe Asp Met Glu Asn Asp Pro Val Met Gly Thr His Lys Ser Thr Lys

65	70	75	80
Gln Val Glu Leu Thr Ala Gln Asp Val Lys Asp Ala His Trp Phe Tyr			
85	90	95	
Asp Thr Pro Gly Ile Thr Lys Glu Asn Cys Ile Leu Asn Leu Leu Thr			
100	105	110	
Glu Lys Glu Val Asn Ile Val Leu Pro Thr Gln Ser Ile Val Pro Arg			
115	120	125	
Thr Phe Val Leu Lys Pro Gly Met Val Leu Phe Leu Gly Ala Ile Gly			
130	135	140	
Arg Ile Asp Phe Leu Gln Gly Asn Gln Ser Ala Trp Phe Thr Val Val			
145	150	155	160
Ala Ser Asn Ile Leu Pro Val His Ile Thr Ser Leu Asp Arg Ala Asp			
165	170	175	
Ala Leu Tyr Gln Lys His Ala Gly His Thr Leu Leu Gln Ile Pro Met			
180	185	190	
Gly Gly Lys Glu Arg Met Ala Gly Phe Pro Pro Leu Val Ala Glu Asp			
195	200	205	
Ile Met Leu Lys Glu Gly Leu Gly Ala Ser Glu Ala Val Ala Asp Ile			
210	215	220	
Lys Phe Ser Ser Ala Gly Trp Val Ser Val Thr Pro Asn Phe Lys Asp			
225	230	235	240
Arg Leu His Leu Arg Gly Tyr Thr Pro Glu Gly Thr Val Leu Thr Val			
245	250	255	
Arg Pro Pro Leu Leu Pro Tyr Ile Val Asn Ile Lys Gly Gln Arg Ile			
260	265	270	
Lys Lys Ser Val Ala Tyr Lys Thr Lys Lys Pro Pro Ser Leu Met Tyr			
275	280	285	
Asn Val Arg Lys Lys Gly Lys Ile Asn Val			
290	295		

<210> 345

<211> 314

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 345
Met Leu Pro Ala Arg Leu Pro Phe Arg Leu Leu Ser Leu Phe Leu Arg
1 5 10 15
Gly Ser Ala Pro Thr Ala Ala Arg His Gly Leu Arg Glu Pro Leu Leu
20 25 30
Glu Arg Arg Cys Ala Ala Ala Ser Ser Phe Gln His Ser Ser Ser Leu
35 40 45
Gly Arg Glu Leu Pro Tyr Asp Pro Val Asp Thr Glu Gly Phe Gly Glu
50 55 60
Gly Gly Asp Met Gln Glu Arg Phe Leu Phe Pro Glu Tyr Ile Leu Asp
65 70 75 80
Pro Glu Pro Gln Pro Thr Arg Glu Lys Gln Leu Gln Glu Leu Gln Gln
85 90 95
Gln Gln Glu Glu Glu Arg Gln Arg Gln Arg Arg Glu Glu Arg
100 105 110
Arg Gln Gln Asn Leu Arg Ala Arg Ser Arg Glu His Pro Val Val Gly
115 120 125
His Pro Asp Pro Ala Leu Pro Pro Ser Gly Val Asn Cys Ser Gly Cys
130 135 140
Gly Ala Xaa Leu His Cys Gln Asp Ala Gly Val Pro Gly Tyr Leu Pro
145 150 155 160
Arg Glu Lys Phe Leu Arg Thr Ala Glu Ala Asp Gly Gly Leu Ala Arg
165 170 175
Thr Val Cys Gln Arg Cys Trp Leu Leu Ser His His Arg Arg Ala Leu
180 185 190
Arg Leu Gln Val Ser Arg Glu Gln Tyr Leu Glu Leu Val Ser Ala Ala
195 200 205
Leu Arg Xaa Pro Gly Pro Ser Leu Val Leu Tyr Met Val Asp Leu Leu
210 215 220
Asp Leu Pro Asp Ala Leu Leu Pro Asp Leu Pro Ala Leu Val Gly Pro
225 230 235 240
Lys Gln Leu Ile Val Leu Gly Asn Lys Val Asp Leu Leu Pro Gln Asp
245 250 255
Ala Pro Gly Tyr Arg Gln Arg Leu Arg Glu Arg Leu Trp Glu Asp Cys
260 265 270
Ala Arg Ala Gly Leu Leu Ala Pro Gly Thr Lys Gly His Ser Ala
275 280 285
Pro Ser Arg Thr Ser His Arg Thr Gly Arg Ile Arg Ile Arg Arg Thr
290 295 300

Gly Pro Ala Gln Trp Ser Gly Thr Cys Gly
305 310

<210> 346
<211> 380
<212> PRT
<213> Homo sapiens

<400> 346
Pro Ser Phe Arg Arg Glu Arg Val Glu Thr Gly Gly Gly Pro Val
1 5 10 15

Thr His Gly Thr Glu Gly Pro Phe Leu Pro Leu Pro Gly Gly Thr Arg
20 25 30

Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu
35 40 45

Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His
50 55 60

Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly
65 70 75 80

Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val
85 90 95

Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr
100 105 110

Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met
115 120 125

Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp
130 135 140

Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln
145 150 155 160

Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp
165 170 175

Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu
180 185 190

Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys
195 200 205

Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys
210 215 220

Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu
225 230 235 240

Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala
245 250 255

Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu Lys Glu Thr

260

265

270

Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu

275

280

285

Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His Lys Tyr Ala Thr

290

295

300

Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr

305

310

315

320

Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro

325

330

335

Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg

340

345

350

Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser

355

360

365

Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly

370

375

380

<210> 347

<211> 422

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (328)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 347

Trp Ser Thr Gly Asn Ala Ser Trp Glu Lys Lys Asp Asn Phe Ile Leu

1

5

10

15

Ser Ala Asp Phe Glu Met Met Gly Leu Gly Asn Gly Arg Arg Ser Met

20

25

30

Lys Ser Pro Pro Leu Val Leu Ala Ala Leu Val Ala Cys Ile Ile Val

35

40

45

Leu Gly Phe Asn Tyr Trp Ile Ala Ser Ser Arg Ser Val Asp Leu Gln

50

55

60

Thr Arg Ile Met Glu Leu Glu Gly Arg Val Arg Arg Arg Ala Ala Glu

65

70

75

80

Arg Gly Ala Val Glu Leu Lys Lys Asn Glu Phe Gln Gly Glu Leu Glu

85

90

95

Lys Gln Arg Glu Gln Leu Asp Lys Ile Gln Ser Ser His Asn Phe Gln

100

105

110

Leu Glu Ser Val Asn Lys Leu Tyr Gln Asp Glu Lys Ala Val Leu Val

115

120

125

Asn Asn Ile Thr Thr Gly Glu Arg Leu Ile Arg Val Leu Gln Asp Gln
130 135 140

Leu Lys Thr Leu Gln Arg Asn Tyr Gly Arg Leu Gln Gln Asp Val Leu
145 150 155 160

Gln Phe Gln Lys Asn Gln Thr Asn Leu Glu Arg Lys Phe Ser Tyr Asp
165 170 175

Leu Ser Gln Cys Ile Asn Gln Met Lys Glu Val Lys Glu Gln Cys Glu
180 185 190

Glu Arg Ile Glu Glu Val Thr Lys Lys Gly Asn Glu Ala Val Ala Ser
195 200 205

Arg Asp Leu Ser Glu Asn Asn Asp Gln Arg Gln Gln Leu Gln Ala Leu
210 215 220

Ser Glu Pro Gln Pro Arg Leu Gln Ala Ala Gly Leu Pro His Thr Glu
225 230 235 240

Val Pro Gln Gly Lys Gly Asn Val Leu Gly Asn Ser Lys Ser Gln Thr
245 250 255

Pro Ala Pro Ser Ser Glu Val Val Leu Asp Ser Lys Arg Gln Val Glu
260 265 270

Lys Glu Glu Thr Asn Glu Ile Gln Val Val Asn Glu Glu Pro Gln Arg
275 280 285

Asp Arg Leu Pro Gln Glu Pro Gly Arg Glu Gln Val Val Glu Asp Arg
290 295 300

Pro Val Gly Gly Arg Gly Phe Gly Ala Gly Glu Leu Gly Gln Thr
305 310 315 320

Pro Gln Val Gln Ala Ala Leu Xaa Val Ser Gln Glu Asn Pro Glu Met
325 330 335

Glu Gly Pro Glu Arg Asp Gln Leu Val Ile Pro Asp Gly Gln Glu Glu
340 345 350

Glu Gln Glu Ala Ala Gly Glu Gly Arg Asn Gln Gln Lys Leu Arg Gly
355 360 365

Glu Asp Asp Tyr Asn Met Asp Glu Asn Glu Ala Glu Ser Glu Thr Asp
370 375 380

Lys Gln Ala Ala Leu Ala Gly Asn Asp Arg Asn Ile Asp Val Phe Asn
385 390 395 400

Val Glu Asp Gln Lys Arg Asp Thr Ile Asn Leu Leu Asp Gln Arg Glu
405 410 415

Lys Arg Asn His Thr Leu
420

<211> 14
<212> PRT
<213> Homo sapiens

<400> 348
Ser Leu His Arg Phe Val Leu Ser Gln Ala Lys Asp Glu Leu
1 5 10

<210> 349
<211> 19
<212> PRT
<213> Homo sapiens

<400> 349
Phe Ile Lys Phe Phe Ala Pro Trp Cys Gly His Cys Lys Ala Leu Ala
1 5 10 15

Pro Thr Trp

<210> 350
<211> 19
<212> PRT
<213> Homo sapiens

<400> 350
Phe Ile Lys Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Thr Leu Ala
1 5 10 15

Pro Thr Trp

<210> 351
<211> 363
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 351
Arg Arg Gly Arg Gly Val Pro Gly Pro Arg Gly Arg Arg Arg Leu Trp
1 5 10 15

Ser Ala Ala Cys Gly His Cys Gln Arg Leu Gln Pro Thr Trp Asn Asp
20 25 30

Leu Gly Asp Lys Tyr Asn Ser Met Glu Xaa Ala Lys Val Tyr Val Ala
35 40 45

Lys Val Asp Cys Thr Ala His Ser Asp Val Cys Ser Ala Gln Gly Val
50 55 60

Arg Gly Tyr Pro Thr Leu Lys Leu Phe Lys Pro Gly Gln Glu Ala Val

65	70	75	80													
Lys	Tyr	Gln	Gly	Pro	Arg	Asp	Phe	Gln	Thr	Leu	Glu	Asn	Trp	Met	Leu	
				85					90				95			
Gln	Thr	Leu	Asn	Glu	Glu	Pro	Val	Thr	Pro	Glu	Pro	Glu	Val	Glu	Pro	
					100			105				110				
Pro	Ser	Ala	Pro	Glu	Leu	Lys	Gln	Gly	Leu	Tyr	Glu	Leu	Ser	Ala	Ser	
					115			120				125				
Asn	Phe	Glu	Leu	His	Val	Ala	Gln	Gly	Asp	His	Phe	Ile	Lys	Phe	Phe	
	130				135				140							
Ala	Pro	Trp	Cys	Gly	His	Cys	Lys	Ala	Leu	Ala	Pro	Thr	Trp	Glu	Gln	
	145				150				155				160			
Leu	Ala	Leu	Gly	Leu	Glu	His	Ser	Glu	Thr	Val	Lys	Ile	Gly	Lys	Val	
					165			170				175				
Asp	Cys	Thr	Gln	His	Tyr	Glu	Leu	Cys	Ser	Gly	Asn	Gln	Val	Arg	Gly	
					180			185				190				
Tyr	Pro	Thr	Leu	Leu	Trp	Phe	Arg	Asp	Gly	Lys	Val	Asp	Gln	Tyr		
					195			200				205				
Lys	Gly	Lys	Arg	Asp	Leu	Glu	Ser	Leu	Arg	Glu	Tyr	Val	Glu	Ser	Gln	
					210			215				220				
Leu	Gln	Arg	Thr	Glu	Thr	Gly	Ala	Thr	Glu	Thr	Val	Thr	Pro	Ser	Glu	
	225				230				235				240			
Ala	Pro	Val	Leu	Ala	Ala	Glu	Pro	Glu	Ala	Asp	Lys	Gly	Thr	Val	Leu	
					245			250				255				
Ala	Leu	Thr	Glu	Asn	Asn	Phe	Asp	Asp	Thr	Ile	Ala	Glu	Ile	Thr		
					260			265				270				
Phe	Ile	Lys	Phe	Tyr	Ala	Pro	Trp	Cys	Gly	His	Cys	Lys	Thr	Leu	Ala	
					275			280				285				
Pro	Thr	Trp	Glu	Glu	Leu	Ser	Lys	Lys	Glu	Phe	Pro	Gly	Leu	Ala	Gly	
					290			295				300				
Val	Lys	Ile	Ala	Glu	Vai	Asp	Cys	Thr	Ala	Glu	Arg	Asn	Ile	Cys	Ser	
					305			310				315			320	
Lys	Tyr	Ser	Val	Arg	Gly	Tyr	Pro	Thr	Leu	Leu	Leu	Phe	Arg	Gly	Gly	
					325			330				335				
Lys	Lys	Val	Ser	Glu	His	Ser	Gly	Gly	Arg	Asp	Leu	Asp	Ser	Leu	His	
					340			345				350				
Arg	Phe	Val	Leu	Ser	Gln	Ala	Lys	Asp	Glu	Leu						
					355			360								

<210> 352

<211> 93

<212> PRT

<213> Homo sapiens

<400> 352

Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu Arg Gly Leu
1 5 10 15Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser Ala Ser Glu
20 25 30Ile Pro Lys Gly Lys Gln Lys Ala His Ser Gly Arg Gly Arg Trp Trp
35 40 45Thr Cys Ile Met Glu Cys Ala Tyr Lys Gly Gln Gln Glu Cys Leu Val
50 55 60Glu Thr Gly Ala Leu Gly Pro Met Ala Phe Arg Val His Leu Gly Ser
65 70 75 80Gln Val Gly Met Asp Ser Lys Glu Lys Arg Gly Asn Val
85 90

<210> 353

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 353

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
1 5 10 15Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
20 25 30Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
35 40 45Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
50 55 60His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
65 70 75 80Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
85 90 95Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
100 105 110Pro Phe Ile Gly Pro Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
115 120 125

Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val

239

130	135	140
Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu		
145	150	155
Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu		
165	170	175
Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His		
180	185	190
Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala		
195	200	205
Gly Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu		
210	215	220
Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe		
225	230	235
Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly		
245	250	255
Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr		
260	265	270

Ser

<210> 354

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 354

Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe Ser	
1	5
10	15

Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr Pro	
20	25
30	

Phe Ile Gly Pro Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile Ala	
35	40
45	

Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val Gly	
50	55
60	

Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu Ser	
65	70
75	80

Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu Asp	
85	90
95	

240

Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His Asp
100 105 110

Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala Gly
115 120 125

Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu Ala
130 135 140

Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe Pro
145 150 155 160

Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly Met
165 170 175

Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr Ser
180 185 190

<210> 355

<211> 204

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 355

Gly Ala Ser Cys Glu Gly Gly Ala Ala Ala Arg Ala Ala Leu Gly
1 5 10 15

Val His Arg Ser Gln Lys Ala Leu Leu Val Phe Arg Arg Thr Leu Ser
20 25 30

Asn Leu Leu Tyr Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val
35 40 45

Leu Cys Ala Gly Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro
50 55 60

Ser Asp Asp Gly Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro
65 70 75 80

Glu Ala His Val Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys
85 90 95

Val Leu His Gln Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala
100 105 110

Gly Ala Ala Leu Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys
115 120 125

Arg Glu Phe His Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro
130 135 140

Gly Glu Cys Gly Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser
145 150 155 160

Ala Pro Val Arg Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg
165 170 175

Ala Arg Gly Glu Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser
180 185 190

Leu Met Phe Thr Ser Arg Asn Gly Leu Val Gly Cys
195 200

<210> 356

<211> 72

<212> PRT

<213> Homo sapiens

<400> 356

Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val
1 5 10 15

Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
20 25 30

Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
35 40 45

Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Thr Cys Ser Ala
50 55 60

Lys Cys Thr Thr Arg Cys Trp Leu
65 70

<210> 357

<211> 115

<212> PRT

<213> Homo sapiens

<400> 357

Leu Lys Arg Ala Pro Pro Gly Pro Ala Leu Ala Lys Gly Leu Leu Gln
1 5 10 15

Pro Ser Ser Thr Phe Gln Ala Leu Glu Thr Asn Ile Gly Asp Gln Val
20 25 30

Arg Arg His Ser Thr Ala Val Val Ile Arg Glu Met Thr Ser Tyr Ile
35 40 45

Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly Cys Ile Glu Lys Asp
50 55 60

Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg Leu His Leu Leu Phe
65 70 75 80

Val Gly Gly Gln Leu Arg Gln Val Arg Met Leu Arg Gly Glu Leu Ser
85 90 95

Cys Ala Cys Tyr Arg Pro His Val Gln Ala Leu Gln Leu Gly Gly Cys
100 105 110

Thr Cys Phe
115

<210> 358
<211> 88
<212> PRT
<213> Homo sapiens

<400> 358
Val Ile Lys Leu Ile Cys Pro Ala Ala Phe Pro Val Tyr Phe Gln Asp
1 5 10 15

Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Phe
20 25 30

Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile
35 40 45

Ile Ser Cys Leu Leu Leu Ser Lys Cys Phe Glu Gly Leu Glu Leu Met
50 55 60

Cys Glu His Leu Tyr Gln Leu Ser Gln Leu His Val Leu His His Ile
65 70 75 80

Phe Ser Tyr Leu Leu Cys Thr Pro
85

<210> 359
<211> 716
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (373)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (705)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 359
Tyr Xaa Ile Pro Gly Ser Thr His Ala Ser Gly Arg Gln Arg Gly Ser
1 5 10 15

Gly Arg Gly Glu Asp Asp Ser Gly Pro Pro Pro Ser Thr Val Ile Asn
20 25 30

Gln Asn Glu Thr Phe Ala Asn Ile Ile Phe Lys Pro Thr Val Val Gln
35 40 45

Gln Ala Arg Ile Ala Gln Asn Gly Ile Leu Gly Asp Phe Ile Ile Arg
50 55 60

Tyr Asp Val Asn Arg Glu Gln Ser Ile Gly Asp Ile Gln Val Leu Asn
65 70 75 80

Gly Tyr Phe Val His Tyr Phe Ala Pro Lys Asp Leu Pro Pro Leu Pro
85 90 95

Lys Asn Val Val Phe Val Leu Asp Ser Ser Ala Ser Met Val Gly Thr
100 105 110

Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile Leu His Asp Leu
115 120 125

Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser Asn Arg Ile Lys
130 135 140

Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp Ser Ile Arg Asp
145 150 155 160

Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly Gly Thr Asp Ile
165 170 175

Asn Gly Val Leu Gln Arg Ala Ile Arg Leu Leu Asn Lys Tyr Val Ala
180 185 190

His Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu Thr
195 200 205

Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu Asn
210 215 220

Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile Gly
225 230 235 240

Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys Leu Ser Leu Glu
245 250 255

Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Asp Ala Gly Ser
260 265 270

Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro Leu Leu Ser Asp
275 280 285

Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln Ala Thr Lys Thr
290 295 300

Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile Ile Ala Gly Lys
305 310 315 320

Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu Val Thr Ala Ser
325 330 335

Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val Pro Val Arg Pro

340	345	350
Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg Pro Gly Gly Asp		
355	360	365
Gly Glu Gly Asp Xaa Asn His Ile Glu Arg Leu Trp Ser Tyr Leu Thr		
370	375	380
Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp Asp Glu Pro Glu		
385	390	395
Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala Val Ser Tyr Arg		
405	410	415
Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly Pro Val Pro Arg		
420	425	430
Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala Ala Met Gly Pro		
435	440	445
Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr Gln Pro Gly Pro		
450	455	460
Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile Ser Lys Thr Ser		
465	470	475
480		
Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro Leu Ser Arg Leu		
485	490	495
Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp Ile Leu Arg Leu		
500	505	510
Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn Gly Glu Leu Ile		
515	520	525
Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln Arg Thr Tyr Leu		
530	535	540
Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg Ser Tyr Leu Glu		
545	550	555
560		
Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp Arg Leu Val Leu		
565	570	575
Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly Leu Glu Val Ser		
580	585	590
Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln Gly Ser Ile Ala		
595	600	605
Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala Pro Phe Gln Arg		
610	615	620
His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly Leu Ser Ser Asn		
625	630	635
640		
Cys His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp Ala Arg Leu Thr		
645	650	655

Glu Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His Pro Leu Leu Leu
660 665 670

Gln Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val Lys Gly His Gln
675 680 685

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690 695 700

Xaa Asp Cys Trp Phe Ala Arg Asn Met Pro Pro Asn
705 710 715

<210> 360

<211> 387

<212> PRT

<213> Homo sapiens

<400> 360

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Ala Leu Pro Gln Val Val Ala Val Asp Ile Asn Asp Leu Gly Thr Ile
35 40 45

Lys Leu Ser Leu Glu Val Thr Trp Ser Pro Phe Asp. Lys Asp Asp Gln
50 55 60

Pro Ser Ala Ala Ser Ser Val Asn Lys Ala Ser Thr Val Thr Lys Arg
65 70 75 80

Phe Ser Thr Tyr Ser Gln Ser Pro Pro Asp Thr Pro Ser Leu Arg Glu
85 90 95

Gln Ala Phe Tyr Asn Met Leu Arg Arg Gln Glu Glu Leu Glu Asn Gly
100 105 110

Thr Ala Trp Ser Leu Ser Ser Glu Ser Ser Asp Asp Ser Ser Ser Pro
115 120 125

Gln Leu Ser Gly Thr Ala Arg His Ser Pro Ala Pro Arg Pro Leu Val
130 135 140

Gln Gln Pro Glu Pro Leu Pro Ile Gln Val Ala Phe Arg Arg Pro Glu
145 150 155 160

Thr Pro Ser Ser Gly Pro Leu Asp Glu Glu Gly Ala Val Ala Pro Val
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Leu Ala Asn Gly His Ala Pro Tyr Ser Arg Thr Leu Ser His Ile Ser
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Gly Pro Lys Ser Leu Ser Trp Gly Pro Ser Pro Pro Thr His Pro Ala

210	215	220
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260	265	270
Ser Thr Asp Ser Gly Pro Ser Glu Leu Pro Gly Pro Thr His Thr Thr		
275	280	285
Thr Gly Ser Thr Tyr Ser Ala Ile Thr Thr Thr His Ser Ala Pro Ser		
290	295	300
Pro Leu Thr His Thr Thr Gly Ser Thr His Lys Pro Ile Ile Ser		
305	310	315
320		
Thr Leu Thr Thr Gly Pro Thr Leu Asn Ile Ile Gly Pro Val Gln		
325	330	335
Thr Thr Thr Ser Pro Thr His Thr Met Pro Ser Pro Ser His Ser		
340	345	350
Asn Ser Pro Gln Tyr Val Asp Phe Cys Ser Ser Val Cys Asp Asn Ile		
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Phe Val His Tyr Val Ile Gly Ile Phe Phe His Thr Leu Tyr Ser Ser		
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Lys Thr Leu		
385		
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Ala Leu Pro Gln Val Val Ala Val Asp Ile Asn Asp Leu Gly Thr Ile		
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Lys Leu Ser Leu Glu Val Thr Trp Ser Pro Phe Asp Lys Asp Asp Gln		
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Pro Ser Ala Ala Ser Ser Val Asn Lys Ala Ser Thr Val Thr Lys Arg		
65	70	75
		80
Phe Ser Thr Tyr Ser Gln Ser Pro Pro Asp Thr Pro Ser Leu Arg Glu		
85	90	95

Gln Ala Phe Tyr Asn Met Leu Arg Arg Gln Glu Glu Leu Glu Asn Gly
100 105 110

Thr Ala Trp Ser Leu Ser Ser Glu Ser Ser Asp Asp Ser Ser Ser Pro
115 120 125

Gln Leu Ser Gly Thr Ala Arg His Ser Pro Ala Pro Arg Pro Leu Val
130 135 140

Gln Gln Pro Glu Pro Leu Pro Ile Gln Val Ala Phe Arg Arg Pro Glu
145 150 155 160

Thr Pro Ser Ser Gly Pro Leu Asp Glu Glu Gly Ala Val Ala Pro Val
165 170 175

Leu Ala Asn Gly His Ala Pro Tyr Ser Arg Thr Leu Ser His Ile Ser
180 185 190

Glu Ala Ser Val Asn Ala Ala Leu Ala Glu Ala Ser Val Glu Ala Val
195 200 205

Gly Pro Lys Ser Leu Ser Trp Gly Pro Ser Pro Pro Thr His Pro Ala
210 215 220

Pro Thr His Gly Lys His Pro Ser Pro Val Pro Pro Ala Leu Asp Pro
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Thr Ser Thr Asp
260

<210> 362

<211> 155

<212> PRT

<213> Homo sapiens

<400> 362

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Met Glu Ala Val Val Phe Val Phe Ser Leu Leu Asp Cys Cys Ala Leu
20 25 30

Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu Ser Asp Leu Glu Cys
35 40 45

Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys Leu Asn Lys Trp Val
50 55 60

Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr Val Leu Leu Leu Met
65 70 75 80

Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu Pro Val Ala Thr Trp
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Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly Asn Met Gly Val Phe
100 105 110

Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys Ser His Met Lys
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<210> 363

<211> 70

<212> PRT

<213> Homo sapiens

<400> 363

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Ser Gly Ser Ser Leu Pro Ser Ala Leu Ala Leu Ser Leu Leu Leu Val
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<210> 364

<211> 56

<212> PRT

<213> Homo sapiens

<400> 364

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20 25 30

Phe Leu Leu Ser Leu Cys Phe Ser Pro Leu Thr Val Lys Arg Ser Ser
35 40 45

Ser Ser Glu Ser Lys Ser Ser Leu
50 55

INTERNATIONAL SEARCH REPORT

IS/ISA/210

International application No.

PCT/US99/17130

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 1-23 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

Please See Extra Sheet.

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest



The additional search fees were accompanied by the applicant's protest.



No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/17130

A. CLASSIFICATION OF SUBJECT MATTER:

IPC (6):

C12N 1/21, 5/10, 15/11, 15/12, 15/63; A61K 38/16, 38/17; C07K 14/00, 14/435, 16/00; G01N 33/50

A. CLASSIFICATION OF SUBJECT MATTER:

US CL :

536/23.1, 23.5; 435/69.1, 320.1, 252.3, 325, 6, 7.1; 530/350, 300, 387.1; 514/2

BOX I. OBSERVATIONS WHERE CLAIMS WERE FOUND UNSEARCHABLE

2. Where no meaningful search could be carried out, specifically:

All of the claims were unsearchable to the extent that they require reference to sequences from the sequence listing or an ATCC deposit. However, the specific sequence and deposit numbers were replaced in the claims with generic designators X, Y and Z. Therefore, no meaningful search of the sequences or deposits per se can be carried out by this Authority. The subject matter of the claims has been searched only to the extent possible with reference to the balance of the description.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/17130

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :Please See Extra Sheet.

US CL :Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1, 23.5; 435/69.1, 320.1, 252.3, 325, 6, 7.1; 530/350, 300, 387.1; 514/2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, DIALOG - Biotech Files

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JACOBS, K. A. et al. A Genetic Selection For Isolating cDNAs Encoding Secreted Proteins. Gene. 1997, Vol. 198, pages 289-296, see entire document.	1-23

Further documents are listed in the continuation of Box C.

See patent family annex.

• Special categories of cited documents:	
A document defining the general state of the art which is not considered to be of particular relevance	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
B earlier document published on or after the international filing date	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
C document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Y* document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
O document referring to an oral disclosure, use, exhibition or other means	*Z* document member of the same patent family
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

05 OCTOBER 1999

Date of mailing of the international search report

21 OCT 1999

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-2230

Authorized officer
ELIZABETH C KEMMERER


Telephone No. (703) 308-0196

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PZ031PCT	International application:	Unassigned
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

<p>A. The indications made below relate to the microorganism referred to in the description on page <u>243</u> line <u>N/A</u></p>			
<p>B. IDENTIFICATION OF DEPOSIT <input checked="" type="checkbox"/> Further deposits are identified on an additional sheet</p>			
<p>Name of depositary institution American Type Culture Collection</p>			
<p>Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America</p>			
Date of deposit	Accession Number		
June 11, 1998	209965		
<p>C. ADDITIONAL INDICATIONS (leave blank if not applicable)</p>		<p>This information is continued on an additional sheet <input type="checkbox"/></p>	
<p>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28(4) EPC).</p>			
<p>E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")</p>			
<p>For receiving Office use only</p> <p><input checked="" type="checkbox"/> This sheet was received with the international application</p> <p>Authorized officer  Yvette Z. SHARPE PCT International Division</p>		<p>For International Bureau use only</p> <p><input type="checkbox"/> This sheet was received by the International Bureau on:</p> <p>Authorized officer</p>	

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

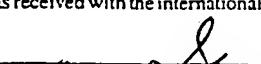
The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PZ031PCT	International application	Unassigned
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>249</u> line <u>N/A</u>		
B. IDENTIFICATION OF DEPOSIT		Further deposits are identified on an additional sheet <input type="checkbox"/>
Name of depositary institution <u>American Type Culture Collection</u>		
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>		
Date of deposit <u>June 26, 1998</u>	Accession Number	<u>203027</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>		
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28(4) EPC).		
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")		

For receiving Office use only		For International Bureau use only	
<input checked="" type="checkbox"/> This sheet was received with the international application		<input type="checkbox"/> This sheet was received by the International Bureau on:	
Authorized officer  Yvette E. Stamps PCT International Division	Authorized officer		

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Applicant's or agent's file reference number	PZ031PCT	International application	Unassigned
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

<p>A. The indications made below relate to the microorganism referred to in the description on page <u>253</u> line <u>N/A</u></p>			
<p>B. IDENTIFICATION OF DEPOSIT</p>		Further deposits are identified on an additional sheet <input type="checkbox"/>	
<p>Name of depositary institution American Type Culture Collection</p>			
<p>Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America</p>			
Date of deposit	July 27, 1998	Accession Number	203071
<p>C. ADDITIONAL INDICATIONS (leave blank if not applicable)</p>		This information is continued on an additional sheet <input type="checkbox"/>	
<p>D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)</p> <p>Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28(4) EPC).</p>			
<p>E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)</p> <p>The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")</p>			
<p>For receiving Office use only</p> <p><input checked="" type="checkbox"/> This sheet was received with the international application</p> <p>Authorized officer </p> <p>Yvette E. Shinnis PCT International Division</p>		<p>For International Bureau use only</p> <p><input type="checkbox"/> This sheet was received by the International Bureau on:</p> <p>Authorized officer</p>	

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Applicant's or agent's file reference number	PZ031PCT	International application
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>259</u> line <u>N/A</u>		
B. IDENTIFICATION OF DEPOSIT <input checked="" type="checkbox"/> Further deposits are identified on an additional sheet		
Name of depositary institution American Type Culture Collection		
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America		
Date of deposit	Accession Number	
July 27, 1998	203070	
C. ADDITIONAL INDICATIONS (leave blank if not applicable) <input checked="" type="checkbox"/> This information is continued on an additional sheet		
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28(4) EPC).		
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")		

For receiving Office use only		For International Bureau use only	
<input checked="" type="checkbox"/> This sheet was received with the International application		<input type="checkbox"/> This sheet was received by the International Bureau on:	
Authorized officer  Yvette E. Glimms PCT International Division		Authorized officer	

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

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AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Applicant's or agent's file reference number	PZ031PCT	International application	Unassigned
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

REC'D 18 AUG 1999

A. The indications made below relate to the microorganism referred to in the description on page <u>260</u> line <u>N/A</u>		WIPO PCT
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>		
Name of depositary institution American Type Culture Collection		
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America		
Date of deposit July 27, 1998	Accession Number 203069	
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>		
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28(4) EPC).		
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g. "Accession Number of Deposit")		

For receiving Office use only

This sheet was received with the international application

Authorized officer
Yves G. G. Lemire
PCT International Division

For International Bureau use only

This sheet was received by the International Bureau on:
18 AUGUST 1999

Authorized officer
P. Gandy

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

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DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

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